Appendix K. Train Operations

- HST Phase 1 Service Plan
- Caltrain Operations Schedule
- Concept Level Operations Analysis for San Francisco Terminal



TECHNICAL MEMORANDUM

Phase 1 Service PLan TM 4.2

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California High-Speed Train Project Phase I Service Plan, RO

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PHASE 1 SERVICE PLAN

1. INTRODUCTION

A concept level service plan and hypothetical timetable for the Phase 1 California High Speed Train (HST) project has been developed, which provides a description of the proposed type and quantity of service that is more detailed than had been available previously. The Phase 1 service plan is intended to serve several purposes:

- Confirm the level of service assumptions (travel times and service frequencies between station pairs) used to develop the estimates of system ridership and revenue
- Validate the operational feasibility of the desired level of service at a conceptual level
- Identify operable patterns of train service, particularly the general requirements for non-stop
 or limited-stop trains to pass slower trains that need to make a greater number of stops
 along the route (i.e., the locations and frequencies of occurrence of these "overtakes" at
 various times of day)
- Provide a basis for estimating the number of required train sets and overall rolling stock fleet requirements
- Provide a basis for estimating platform track and storage track capacity needed to support operations at the end terminal stations

2. ANALYTIC METHODOLOGY

A PB-developed spreadsheet-based "static" model for formulating and analyzing concept level operating plans for railroad systems was adapted for the HST network. This model utilizes train performance calculations taken from prior detailed "dynamic" simulation modeling results to identify the running time characteristics of the various types of service and train stopping patterns that are expected to operate on the HST system. The model generates stringline (time-distance) diagrams and tabular outputs describing the timing and scheduled operating performance of every train. It provides a level of detail sufficient to confidently perform "pattern analysis" of the various express, limited stop and all-stop local services that are envisioned, with the objective of identifying a reasonable service pattern that achieves the desired level of service at each station while minimizing both conflicts between trains and the required number of overtakes.

The spreadsheet model provides the ability for trains to be "linked" with subsequent trains and assigned to specific train sets. The resulting train set equipment cycles form the basis for estimating the size of the required rolling stock fleet.

The model also includes a module that compares the forecast level of system ridership with the quantity of service delivered, allocating riders to specific trains and calculating estimated load factors (projected number of riders per train divided by train seating capacity), using station specific boarding and alighting passenger (detail) estimates and peaking factors derived from the ridership forecasts.

This plan, while contributing to confident approximations at the conceptual level, does not yet represent a detailed operating plan for the system, even though the train timetables and stringline (time-distance) diagrams give the impression of a high level of precision. This conceptual plan



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analysis is based on optimal ideal operations with trains running exactly on schedule. It does not analyze any randomization, delays or perturbations to the normal schedule and does not address the time required to recover from track blockages or the impacts of delay conditions on the network. A full detailed operating plan supported by dynamic computer simulation modeling of train movements throughout the system will be developed in a subsequent task later in the project, at which time an actual proposed timetable can be confidently prepared and approved.

3. ASSUMPTIONS AND GENERAL PRINCIPLES

The following assumptions and general principals guided the development of the Phase 1 service plan:

- The HST system assumed to operate independently of any other passenger or freight rail services
- 2. Train sets are assumed to comprise units of 200 meters (m) in length, either singly (200 m train with 500 passengers) or operating as pairs (400 m train with 1,000 passengers)
- 3. Train running times were obtained from simulated train performance calculations, with an additional time factor added to these times. This added time, sometimes referred to as "schedule pad" or "recovery time" accounts for operator performance, external conditions and minor delays, which result in minimal day-to-day fluctuations in train performance the additional time factor assumed in this analysis is common in passenger train scheduling, permits trains to recover from time lost due to minor causes, and provides an allowance for the system to maintain a high degree of overall on-time performance when operations are normal. Two different scenarios were analyzed concerning recovery time. The initial base case analysis assmed a recovery time factor of seven percent on top of the minimum train run time. This is consistent with current industry practice in the U.S. and is considered a conservative estimate, since the HST system is expected to operate at a higher level of precision than is "typical." A second service plan variation was developed assuming a recovery time factor of three and one-half percent for most trains. In this second case, certain "premium" services, such as express trains during peak periods were assumed to operate with a recovery time allowance of as little as one percent.
- 4. The schedule features "clockface" service patterns and regular intervals between trains (headways), which can be easily remembered and is markedly customer friendly
- 5. The schedule features service patterns that repeat every hour, as opposed to patterns that differ somewhat from hour-to-hour providing for more simplified operations – this makes the service more regular and predictable and reduces the number of different types of overtakes required
- The minimum spacing between trains following each other past a given point is set at three minutes, based on the assumed practical capacity design attributes of the signal and train control system
- 7. Express trains are given the highest priority in terms of their schedule paths; limited stop trains and those that travel a longer distance along the network have the next highest priority, and all-stop local trains generally have the lowest priority and, therefore, the highest incidence of overtakes
- Train overtakes were arranged to utilize station (siding) tracks for express trains to pass local trains making a service stop, while maintaining consistency and reliability in the service stopping patterns.



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- The level of service between Los Angeles and Anaheim is maintained at four trains per hour per direction in the business travel peaks, and three trains per hour per direction at other times of day
- 10. The service levels and patterns developed as the basis for the ridership and revenue forecasts were taken as a guideline in the development of the Phase 1 service plan; adjustments were made where necessary to improve the operational efficiency and performance of the system; in all cases the level of service provided at each station remains at or better than the level assumed in the ridership forecasts.

The analysis assumed the following station dwell times and minimum terminal layover (turnaround) times. The latter is defined to be the minimum time allowed between the scheduled arrival of a train set at a terminal and the scheduled departure of the same train set in the opposite direction of service.

Table 1 – Intermediate Station Dwell Times

Code	Station	Scheduled Dwell Time (mins)
		` ′
SFO	Millbrae	1.5
RWC	Redwood City	1.5
SJC	San Jose	2.0
GLY	Gilroy	1.5
FNO	Fresno	1.5
BFD	Bakersfield	1.5
PMD	Palmdale	1.5
SYL	Sylmar	1.5
BUR	Burbank	1.5
LAU	L.A. Union Sta.	2.0
NSF	Norwalk	1.5

TABLE 2 – TERMINAL STATION MINIMUM LAYOVER TIMES

Code	Station	Minimum Scheduled Layover Time (mins)
SFT	S.FTransbay	30
LAU	L.A. Union Sta.	40
ANA	Anaheim	40
MCD	Merced	40



4. PHASE 1 SERVICE PLAN

STOPPING PATTERNS AND SERVICE FREQUENCIES

Table 3 depicts the various train types and stopping patterns that were used to formulate the Phase 1 service plan, along with the average total estimated travel time from the origin station to the final destination station. The "Express" train type makes only one intermediate stop between San Francisco and Los Angeles – at San Jose – and therefore provides the fastest run time between these points and with an assumption of one percent recovery time during the peak period, is estimated to run between San Francisco and Los Angeles in two hours-forty minutes. At the other end of the spectrum are "All Stop" trains that serve every station along the line and therefore take significantly longer to make a run between San Francisco and the Los Angeles basin.

TABLE 3 - TRAIN STOPPING PATTERNS

ST	OPPING PATTERNS															Fnd-to-Fnd
-	thbound															Run Time
Trai	n Type/Pattern	SFT	SFO	RWC	SJC	GLY	MCD	FNO	BFD	PMD	SYL	BUR	LAU	NSF	ANA	(mins)
1	Bay Area Limited	Х		Х	Х	Х							Х	Х	Х	205
2	Express	Х			Х								Х	Х	Х	194
4	All-Stop	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х	Х	Х	241
7	Central Valley Limited	Х	Х	Х	Х	Х		Х	Χ				Χ	Х	Х	225
9	San Fernando Valley Limited	Х	Х		Х			Х	Х		Х		Х			198
10	Central Valley Limited	Х	Х	Х	Х	Х		Х		Х		Х	Χ	Х	Х	228
13	San Fernando Valley Limited	Х		Х	Х					Х	Χ	Х	Χ	Х	Х	216
14	SF-Merced	Х	Х	Х	Χ	Х	Х									94
15	LA-Merced						Х	Χ	Х	Х	Χ	Χ	Χ	Χ	Х	161
16	Central Valley Limited	Х	Х	Х	Χ	Х		Х	Х				Χ			200
17	San Fernando Valley Limited	Х		Х	Х	Х				Х	Χ	Х	Χ			196
18	Central Valley Limited	Х	Х	Х	Х	Х		Х		Х		Х	Χ			203
19	San Fernando Valley Limited	Х		Х	Х	Х				Х	Χ		Χ			191
20	Central Valley Limited	Х	Χ	Х	Χ			Х	Χ		Х		Χ			200
21	San Fernando Valley Limited	Х			Χ	Х			Χ	Χ	Х	Χ	Χ			199

																Ena-to-Ena
Nor	thbound															Run Time
Trai	n Type/Pattern	<u>ANA</u>	NSF	LAU	<u>BUR</u>	SYL	PMD	<u>BFD</u>	<u>FNO</u>	MCD	<u>GLY</u>	SJC	RWC	SFO	<u>SFT</u>	(mins)
1	Bay Area Limited	Х	Х	Х							Χ	Х	Х		Χ	205
2	Express	Х	Х	Х								Х			Χ	194
4	All-Stop	Х	Х	Х	Х	Х	Х	Χ	Х		Χ	Х	Х	Х	Χ	240
7	Central Valley Limited	Х	Х	Х				Χ	Χ		Χ	Χ	Х	Х	Χ	223
9	San Fernando Valley Limited			Х		Χ		Χ	Χ			Х		Х	Χ	197
10	Central Valley Limited	Х	Х	Х	Х		Х		Χ		Χ	Х		Х	Χ	221
13	San Fernando Valley Limited	Х	Х	Х	Х	Χ	Х					Х	Х		Χ	216
14	SF-Merced									Х	Χ	Х	Х	Х	Χ	94
15	LA-Merced	Х	Х	Х	Х	Χ	Х	Χ	Χ	Х						163
16	Central Valley Limited			Х				Χ	Χ		Χ	Х	Х	Х	Χ	197
17	San Fernando Valley Limited			Х	Х	Χ	Х				Χ	Х	Х		Χ	196
18	Central Valley Limited			Х	Х		Х		Χ		Χ	Х	Х	Х	Χ	196
19	San Fernando Valley Limited			Х		Χ	Х				Χ	Х	Х		Χ	191
20	Central Valley Limited			Х		Х		Χ	Χ			Х	Х	Х	Χ	198
21	San Fernando Valley Limited			Х	Х	Х	Х	Χ			Χ	Х	Х		Χ	203



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End-to-End

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In between these two service types are various categories of "Limited Stop" trains that make selected intermediate station stops but skip other stations. Several different limited stop patterns have been defined. They are grouped and named according to the part of the network within which they provide the greatest degree of service to individual intermediate stations. For instance, the "Bay Area Limiteds" make several stops within the Bay Area between San Francisco and Gilroy and then operate non-stop to Los Angeles. The "Central Valley Limiteds" stop at Fresno and/or Bakersfield but skip selected other intermediate stations, and the "San Fernando Valley Limiteds" make most or all of the stops between Los Angeles and Palmdale but skip many of the stations in the Bay Area and Central Valley. These "Limiteds" make up the majority of trains operating on the network and offer a compromise of a relatively fast run time along with connectivity among various groups of intermediate stations along the line.

The on-board travel time between stations varies, depending on the number of intermediate station stops (which is different for each train type) and the time of day (some trains have additional time built into their peak schedules to allow them to be "overtaken" by express or limited-stop trains while en route). The minimum or "fastest" trip times between selected city pair stations is presented in Table 4, based on the mix of train types and stopping patterns included in the Phase 1 service plan.

TABLE 4 – MINIMUM TRIP TIMES BETWEEN SELECTED STATIONS

(Based on Phase 1 Service Plan Train Stopping Patterns)

With Schedule Pad Allowance of 1.0%	<u>Times in Hours:Minutes</u>									
	SFT	SJC	FNO	LAU	ANA					
SFT San Francisco-Transbay		0:27	1:29	2:40	3:04					
SJC San Jose	0:27		0:50	2:11	2:35					
FNO Fresno	1:29	0:50		1:31	1:55					
LAU Los Angeles Union Station	2:40	2:11	1:31		0:22					
ΔΝΔ Δnahoim	3.∪1	2.35	1.55	0.22						

With	Schedule Pad Allowance of 3.5%		Times	s in Hours:M	<u>inutes</u>	
		SFT	SJC	FNO	LAU	ANA
SFT	San Francisco-Transbay		0:28	1:31	2:44	3:08
SJC	San Jose	0:28		0:51	2:14	2:38
FNO	Fresno	1:31	0:51		1:33	1:57
LAU	Los Angeles Union Station	2:44	2:14	1:33		0:22

Note: The HST system is expected to operate at a high level of precision, with schedule pad allowances lower than for other intercity passenger rail corridors in the U.S. The development of system timetables will be based on tradeoffs that will need to be made among trip time, service reliability, alignment engineering, capital cost and operations and maintenance cost considerations.

*Explanation: Table 4 (above) displays estimated timetable travel times between the city pairs presented in the matrix. For example, when reading the first row of the first table (with schedule pad allowance of 1%), the numbers shown represent the trip time between: San Francisco and San Jose (27 minutes minutes); San Francisco and Fresno (1 hour, 29 minutes); San Francisco and Los Angeles (2 hours, 40 minutes); and San Francisco and Anaheim (3 hours and 4 minutes).

3:08 2:38 1:57

Table 5 compares the service levels and stopping patterns originally assumed as the basis for high speed rail ridership and revenue estimates, and the proposed Phase 1 service plan. The original set of stopping patterns proved to be operationally infeasible, resulting in excessive numbers of overtakes and delays to trains being overtaken. Alternative patterns were examined that deliver



ANA Anaheim

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approximately the same level of service at each station, in terms of service frequency and the mix of express, limited stop and all-stop local service. Though the mix of stopping patterns has been modified, the number of trains per hour at each terminal and intermediate station is the same as or higher than what was assumed for the ridership demand forecasting purposes. The proposed mix of services offers regular clockface patterns, with each service type leaving at the same time each hour, with relatively limited exceptions. Slightly more service is assumed during the three hour peak periods in the morning and late afternoon.

TABLE 5 – PEAK AND OFF-PEAK SERVICE FREQUENCIES

PEAK HOUR STATIO					_							HOUR STATIO										
Pattern No. →	2	1 Exp	9	10 Ltd B	7 NLAX	13 VX	14 SF-M	15 LA-M			Patte	rn No. →	2	1 Exp	14 SF-M	15	18 CV2	19 SFV2	20 CV3	21 SFV3	4	
Trains per hour →	Super 1	0.5	Ltd A	2	0.5	0.5	1.5	1.5		9.5	Trains	s per hour →	Super 1	1	<u> </u>	1	1	1	1	1	1	9
										TOTAL												TOTAL
SFT S.FTransbay	1	0.5	2	2	0.5	0.5	1.5			8		S.FTransbay	1	1	1		1	1	1	1	1	8
SFO Millbrae			2		0.5		1.5			4	SFO	Millbrae			1		1		1		1	4
RWC Redwood City		0.5		2	0.5	0.5	1.5			5		Redwood City		1	1		1	1	1		1	6
SJC San Jose	1	0.5	2	2	0.5	0.5	1.5			8	SJC	San Jose	1	1_	1		1	1	1	1	1	8
GLY Gilroy		0.5		2	0.5		1.5	4.5		4.5	GLY	Gilroy		1	1	1	1	1		1	1	6
MCD Merced FNO Fresno			2		0.5		1.5	1.5		<u>3</u>	MCD FNO	Merced Fresno			1	1	1		1		1	4
BFD Bakersfield			2		0.5			1.5		4	BFD	Bakersfield				1			1	1	1	4
PMD Palmdale				2	0.5	0.5		1.5		4	PMD					1	1	1		1	1	5
SYL Sylmar			2			0.5		1.5		4	SYL	Sylmar				-		1	1	- 	1	5
BUR Burbank			<u> </u>	2		0.5		1.5		4	BUR	Burbank				<u> </u>	1			<u> </u>	1	4
LAU L.A. Union Sta.	1	0.5	2	2	0.5	0.5		1.5		8	LAU	L.A. Union Sta.	1	1		1	1	1	1	1	1	8
NSF Norwalk		0.5			0.5	0.5		1.5		3	NSF	Norwalk	1	1		1	•	· ·		<u> </u>	1	4
ANA Anaheim		0.5	-	-	0.5	0.5		1.5		3	ANA	Anaheim	1	1		1					1	4
PEAK HOUR STATIO Pattern No. →	2 Super	1 <u>Exp</u>	9 Ltd A	10 Ltd B	7 NLAX	13 <u>VX</u>	14 <u>SF-M</u>	15 <u>LA-M</u>			Patte	T HOUR STATIO	2 Super	1 <u>Exp</u>	14 <u>SF-M</u>	15 <u>LA-M</u>	18 <u>CV2</u>	19 <u>SFV2</u>	20 CV3	21 SFV3		
Trains per hour →	1	0.5	2	2	0.5	0.5	1.5	1.5		9.5	Trains	s per hour →	1	1	1	1	1	1	1	1	1	9
										TOTAL												TOTAL
ANA Anaheim		0.5			0.5	0.5		1.5		3		Anaheim	1	1		1					1	4
NSF Norwalk LAU L.A. Union Sta.		0.5			0.5	0.5		1.5		8	NSF	Norwalk L.A. Union Sta.	1	1		1	1	1		1	1	8
LAU L.A. Union Sta. BUR Burbank	1	0.5	2	2	0.5	0.5		1.5		4	BUR	Burbank	1	1		1	1	1	1	1	1	4
SYL Sylmar			2			0.5		1.5		4	SYL	Sylmar				1		1	1	1	1	- 5
PMD Palmdale				2		0.5		1.5		4		Palmdale				-	1	1		- 	1	5
BFD Bakersfield			2		0.5	0.0		1.5		4	BFD	Bakersfield				1			1	1	1	4
FNO Fresno			2		0.5			1.5		4	FNO	Fresno				1	1		1		1	4
MCD Merced							1.5	1.5		3	MCD				1	1						2
GLY Gilroy		0.5		2	0.5		1.5			4.5	GLY	Gilroy		1	1		1	1		1	1	6
SJC San Jose	1	0.5	2	2	0.5	0.5	1.5			8	SJC	San Jose	1	1	1		1	1	1	1	1	8
RWC Redwood City		0.5		2	0.5	0.5	1.5			5		Redwood City		1	1			1	1	1	1	6
SFO Millbrae			2		0.5		1.5			4	SFO	Millbrae			1		1		1		1	4
SFT S.FTransbay	1	0.5	2	2	0.5	0.5	1.5			8	SFT	S.FTransbay	1	1	1		1	1	1	1	1	8
	ΆΤΙΟΝ S	TOPS				40	14	15	4			PEAK HOUR ST	ATION S	1	14	15	16	17			4 Local	
OFF-PEAK HOUR ST Pattern No. →	2 Super	1 <u>Exp</u>	9 <u>Ltd A</u>			13 <u>VX</u>	SF-M	<u>LA-M</u>		7.1	Trains	s per hour →	Super 0	1 1	SF-M 1	LA-M 1	<u>CV2</u>	<u>SFV2</u>				7.6
	2							<u>LA-M</u> 0.8	0.5	7.1 TOTAL	Trains	s per hour →	Super 0	1.1			1.7	1.7			1.1	7.6 TOTAL
Pattern No. →	2 Super	Exp	Ltd A	Ltd B	NLAX	VX	SF-M		0.5			s per hour → Anaheim										
Pattern No. → Trains per hour → SFT S.FTransbay	2 Super 0	0.5	Ltd A	Ltd B	<u>NLAX</u> 0.5	<u>VX</u>	<u>SF-M</u> 0.8		0.5	TOTAL				1.1		1					1.1	TOTAL
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae	2 Super 0	0.5	2 2 2	2 2 2	0.5 0.5	<u>VX</u>	<u>SF-M</u> 0.8		0.5	TOTAL 6.3	SFT SFO	Anaheim		1.1		1					1.1	TOTAL 3.2
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City	2 Super 0	0.5 0.5	Ltd A 2 2	2 2	0.5 0.5 0.5	<u>VX</u> 0	0.8 0.8 0.8		0.5 0.5 0.5	6.3 3.8	SFT SFO	Anaheim Norwalk	0	1.1		1 1 1	1.7	1.7			1.1	3.2 3.2
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City SJC San Jose GLY Gilroy	2 <u>Super</u> 0	0.5 0.5	2 2 2	2 2 2	0.5 0.5 0.5 0.5	0 0 0	0.8 0.8 0.8 0.8 0.8 0.8	0.8	0.5 0.5 0.5 0.5	6.3 3.8 4.3	SFT SFO RWC SJC GLY	Anaheim Norwalk L.A. Union Sta. Burbank Sylmar	0	1.1		1 1 1 1	1.7	1.7 1.7 1.7 1.7			1.1 1.1 1.1 1.1 1.1	3.2 3.2 6.6
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City SJC San Jose GLY Gilroy MCD Merced	2 <u>Super</u> 0	0.5 0.5 0.5 0.5	2 2 2 2	2 2 2 2 2	0.5 0.5 0.5 0.5 0.5	0 0 0	0.8 0.8 0.8 0.8 0.8		0.5 0.5 0.5 0.5 0.5	6.3 3.8 4.3 6.3	SFT SFO RWC SJC GLY FNO	Anaheim Norwalk L.A. Union Sta. Burbank	0	1.1		1 1 1 1 1	1.7	1.7			1.1 1.1 1.1 1.1 1.1 1.1	3.2 3.2 6.6 3.8
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City SJC San Jose GLY Gilroy MCD Merced FNO Fresno	2 <u>Super</u> 0	0.5 0.5 0.5 0.5	2 2 2 2 2	2 2 2 2 2	0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0	0.8 0.8 0.8 0.8 0.8 0.8	0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.5 0.5	6.3 3.8 4.3 6.3 4.3 1.6 3.8	SFT SFO RWC SJC GLY FNO BFD	Anaheim Norwalk L.A. Union Sta. Burbank Sylmar Palmdale Bakersfield	0	1.1		1 1 1 1 1	1.7	1.7 1.7 1.7 1.7			1.1 1.1 1.1 1.1 1.1 1.1 1.1	3.2 3.2 6.6 3.8 3.8 3.8 3.8
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City SJC San Jose GLY Gilroy MCD Merced FNO Fresno BFD Bakersfield	2 <u>Super</u> 0	0.5 0.5 0.5 0.5	2 2 2 2	2 2 2 2 2 2 2	0.5 0.5 0.5 0.5 0.5 0.5	0 0 0	0.8 0.8 0.8 0.8 0.8 0.8	0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.5 0.5 0.5	6.3 3.8 4.3 6.3 4.3 1.6 3.8	SFT SFO RWC SJC GLY FNO BFD PMD	Anaheim Norwalk L.A. Union Sta. Burbank Sylmar Palmdale Bakersfield Fresno	0	1.1	1	1 1 1 1 1 1 1 1	1.7	1.7 1.7 1.7 1.7			1.1 1.1 1.1 1.1 1.1 1.1	3.2 3.2 6.6 3.8 3.8 3.8 3.8 3.8
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City SJC San Jose GLY Gilroy MCD Merced FNO Fresno BFD Bakersfield PMD Palmdale	2 Super 0	0.5 0.5 0.5 0.5	2 2 2 2 2 2 2	2 2 2 2 2	0.5 0.5 0.5 0.5 0.5 0.5 0.5	VX 0 0 0 0	0.8 0.8 0.8 0.8 0.8 0.8	0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	TOTAL 6.3 3.8 4.3 6.3 4.3 1.6 3.8 3.8	SFT SFO RWC SJC GLY FNO BFD PMD MCD	Anaheim Norwalk L.A. Union Sta. Burbank Sylmar Palmdale Bakersfield Fresno Merced	0	1.1 1.1 1.1 1.1	1	1 1 1 1 1 1 1	1.7	1.7 1.7 1.7 1.7			1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	3.2 3.2 6.6 3.8 3.8 3.8 3.8 3.8
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City SLC San Jose GLY Gilroy MCD Merced MFO Merced BFD Bakersfield PMD Palmdale SYL Sylmar	2 Super 0	0.5 0.5 0.5 0.5	2 2 2 2 2	2 2 2 2 2 2 2 2	0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0	0.8 0.8 0.8 0.8 0.8 0.8	0.8 0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	TOTAL 6.3 3.8 4.3 6.3 4.3 1.6 3.8 3.8 3.3	SFT SFO RWC SJC GLY FNO BFD PMD MCD SYL	Anaheim Norwalk L.A. Union Sta. Burbank Sylmar Palmdale Bakersfield Fresno Merced Gilroy	0	1.1 1.1 1.1 1.1	1 1 1	1 1 1 1 1 1 1 1	1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.7			1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	3.2 3.2 6.6 3.8 3.8 3.8 3.8 2 6.9
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City SJC San Jose GLY Gilroy MCD Merced FNO Fresno BFD Bakersfield PMD Palmdale SYL Sylmar BUR BUrbank	2 Super 0 0	0.5 0.5 0.5 0.5 0.5	2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0	0.8 0.8 0.8 0.8 0.8 0.8	0.8 0.8 0.8 0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	6.3 3.8 4.3 6.3 4.3 1.6 3.8 3.8 3.3 3.3	SFT SFO RWC SJC GLY FNO BFD PMD MCD SYL BUR	Anaheim Norwalk L.A. Union Sta. Burbank Sylmar Palmdale Bakersfield Fresno Merced Gilroy San Jose	0	1.1 1.1 1.1 1.1 1.1	1 1 1 1	1 1 1 1 1 1 1 1	1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.7			1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	3.2 3.2 6.6 3.8 3.8 3.8 3.8 2 6.9 6.6
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City SJC San Jose GLY Gilroy MCD Merced FNO Fresno BFD Bakersfield PMD Palmdale SYL Sylmar BUR Burbank LAU L.A. Union Sta.	2 Super 0	0.5 0.5 0.5 0.5 0.5 0.5	2 2 2 2 2 2 2	2 2 2 2 2 2 2 2	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0	0.8 0.8 0.8 0.8 0.8 0.8	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	TOTAL 6.3 3.8 4.3 6.3 4.3 1.6 3.8 3.8 3.3 3.3 3.3 6.3	SFT SFO RWC SJC GLY FNO BFD PMD MCD SYL BUR LAU	Anaheim Norwalk L.A. Union Sta. Burbank Sylmar Palmdale Bakersfield Fresno Merced Gilroy San Jose Redwood City	0	1.1 1.1 1.1 1.1	1 1 1 1 1 1	1 1 1 1 1 1 1 1	1.7 1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.7			1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	3.2 3.2 6.6 3.8 3.8 3.8 3.8 3.8 2 6.9 6.6
Pattern No. → Trains per hour → SFT S.FTransbay SFO Millbrae RWC Redwood City SJC San Jose GLY Gilroy MCD Merced FNO Fresno BFD Bakersfield PMD Palmdale SYL Sylmar BUR BUrbank	2 Super 0 0	0.5 0.5 0.5 0.5 0.5	2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0	0.8 0.8 0.8 0.8 0.8 0.8	0.8 0.8 0.8 0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	6.3 3.8 4.3 6.3 4.3 1.6 3.8 3.8 3.3 3.3	SFT SFO RWC SJC GLY FNO BFD PMD MCD SYL BUR LAU NSF	Anaheim Norwalk L.A. Union Sta. Burbank Sylmar Palmdale Bakersfield Fresno Merced Gilroy San Jose	0	1.1 1.1 1.1 1.1 1.1	1 1 1 1	1 1 1 1 1 1 1 1	1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.7			1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	TOTAL 3.2 3.2 6.6 3.8 3.8 3.8 3.8 2 6.9 6.6



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The Phase 1 service plan as outlined in this document and its attachments provides a level of service at each station that is generally equivalent to the level of service assumed in the development of the estimates of system ridership and revenue (for Phase 1). A similar methodology is being applied to the service and operations analysis of the HST project to include the extensions of the system to Sacramento and San Diego; the results of the analysis of the system extensions to Sacramento and San Diego will be reported in a separate Technical Memorandum at a later date.

Table 5 indicates a slight increase in the number of peak station stops at Redwood City, Gilroy, Palmdale and Sylmar on the San Fernando Valley and Central Valley Limited services (Patterns 18-21), with a slightly longer running time for these services than indicated in the original service plan for the limited stop services (Patterns 9 and 10). As the HST project studies continue to progress it would be prudent to consider a more detailed ridership estimation to assess the relative merits of these run time and service frequency tradeoffs.

TRAIN SCHEDULE DEVELOPMENT

The process of developing a feasible train schedule for the various combinations of stopping patterns, train origins and destinations and service frequencies entailed overlaying the various patterns in a graphical template known as a "stringline" – which is a diagram with clock time on the horizontal axis and location along the rail system on the vertical axis. Each train movement is represented by a line that traces its path along the network in both time and distance. The stringline for a non-stop train has a steeper slope than that of a multiple-stop train. Stringlines in the same direction of flow are not permitted to intersect one another except at locations where there are additional tracks (at passenger stations) available for faster trains to bypass slower or stopped trains. These locations are assumed to be limited to the areas surrounding the stations on the main portion of the HST line between Gilroy and Palmdale – where non-stop trains are permitted to bypass or "overtake" trains operating in the same direction and stopping at the station. It is also worthy to note that with these service levels and consistent stopping patterns, the conceptual analysis revealed that trains are able to run in sequence (without overtakes) north of Gilroy and south of Palmdale. This attribute is subject to further study and validation, and will be examined in detail when the full dispatch computer simulation is performed

Stringline diagrams were constructed in the spreadsheet model by starting with the highest priority trains (express trains running on clockface schedules), and then adding the other stopping patterns and frequencies in a priority order, adjusting the starting times of each subsequent group of trains to minimize the number of required overtakes and to make sure that all overtakes, when required, occur at the appropriate intermediate station locations. Additional station dwell time was added to the schedules of trains being overtaken, as necessary, to ensure that the minimum three minute separation between trains is maintained.

Hypothetical timetables are presented in the appendices. A timetable for the base service plan is presented in Appendix A1. This same schedule is represented in stringline format in Appendix A2, which shows the patterns of train movements during the morning peak, mid-day period, afternoon peak and late evening period. Appendix B presents the same information for the service plan variation based on three and one half percent and one percent recovery time allowances. A hypothetical timetable for this service plan variation is presented in Appendix B1, with this schedule respresented in stringline format in Appendix B2.

Table 6 shows the number of scheduled trains, for each stopping pattern/service type, within the morning peak, mid-day, afternoon peak and late evening periods. The daily schedule provides a total of 260 revenue trains.



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TABLE 6 - REVENUE TRAINS BY TIME PERIOD AND TRAIN TYPE

Pattern	Train Type	End Points		Daily Trai	ins (both d	irections)	
			Morning Peak 3 Hrs	Mid-Day 7 Hrs	Afternoon Peak 3 Hrs	Late Evening 3+ Hrs	Total Daily
1	Bay Area Limited	SFT-ANA	6	14	6	8	34
2	Express	SFT-ANA	6	_	6	_	12
4	All-Stop Local	SFT-ANA	6	14	6	8	34
10	Central Valley Limited	SFT-ANA	2	_	2	_	4
14	San Francisco-Merced All-Stop	SFT-MCD	6	14*	6	6	32
15	Anaheim-Merced All-Stop	MCD-ANA	6	14*	6	6	32
16	Central Valley Limited	SFT-LAU	_	28	_	6	34
17	San Fernando Valley Limited	SFT-LAU		28	_	6	34
18	Central Valley Limited	SFT-LAU	4	_	4	_	8
19	San Fernando Valley Limited	SFT-LAU	6	_	6	_	12
20	Central Valley Limited	SFT-LAU	6	_	6	_	12
21	San Fernando Valley Limited	SFT-LAU	6	_	6		12
Total			54	112	54	40	260

^{*}Assumes one mid-day interval of 2 hours instead of normal 1 hour headway, during period of lowest ridership demand.

Annual operating costs for HST service, in large measure, are estimated based on the number of train-miles of assumed service operated. Table 7 presents the annual train-miles associated with the Phase 1 service plan. This estimate is based on full daily service for 250 weekdays per year, plus 115 weekend days and holidays with a reduced level of service.

TABLE 7 – DAILY AND ANNUAL TRAIN-MILES

	Daily Train-Miles	Daily Train-Miles (200m equivalent)	Days/ Year	Annual Train-Miles (200m equivalent)
Weekday	106,211	140,405	250	35,101,000
Weekend & Holiday	83,760	83,760	115	9,632,000
Total			365	*44,734,000

^{*} Average annual train miles per 200 meter trainset is estimated at approximately 426,000, assuming a Phase 1 fleet requirement of 105 trainsets including spares (assumed spare ratio of 10%).



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ESTIMATED PASSENGER LOADS AND LOAD FACTORS

In order to estimate train consists and fleet requirements, and verify that the capacity of the Phase 1 service plan approximately matches demand, the estimated daily Phase 1 ridership in 2030 of 159,000 trips was factored to develop an approximation of demand by hour for the peak, peak shoulder and off-peak periods. Ridership projections for daily boardings at each station, and annual region-to-region trips factored down to average daily travel, were used to derive a station-to-station daily trip table, which is presented in Table 8 below. The assumed peaking factors are presented in Table 9.

Table 8 – Estimated Daily Station-to-Station Ridership in 2030 (Phase 1)

	Boarding Station.														
	_														
	San Francisco		Redwood		0.1		_	5				Los Angeles			
Alighting Station	(Transbay)	Millbrae	City	San Jose	Gilroy	Merced	Fresno		Palmdale	Sylmar	Burbank	Union Station	Norwalk	Anaheim	Total
SFT San Francisco (Transbay)	0	262	1,247	3,154	856	1,707	1,654	1,653	3,421	2,586	614	2,256	1,836	11,643	32,890
SFO Millbrae	262	0	352	891	242	68	66	66	137	104	25	91	74	467	2,845
RWC Redwood City	1,247	352	0	40	11	184	178	178	369	279	66	243	198	1,254	4,599
SJC San Jose	3,154	891	40	0	50	396	384	383	794	600	142	523	426	2,702	10,485
GLY Gilroy	856	242	11	50	0	306	297	296	615	465	110	405	330	2,092	6,074
MCD Merced	1,707	68	184	396	306	0	405	671	556	420	100	367	298	1,892	7,370
FNO Fresno	1,654	66	178	384	297	405	0	955	365	276	65	241	196	1,242	6,324
BFD Bakersfield	1,653	66	178	383	296	671	955	0	514	389	92	339	276	1,750	7,562
PMD Palmdale	3,421	137	369	794	615	556	365	514	0	135	360	6,473	826	2,499	17,063
SYL Sylmar	2,586	104	279	600	465	420	276	389	135	0	91	1,632	208	630	7,814
BUR Burbank	614	25	66	142	110	100	65	92	360	91	0	1,686	215	651	4,217
LAU Los Angeles Union Station	2,256	91	243	523	405	367	241	339	6,473	1,632	1,686	0	730	2,211	17,197
NSF Norwalk	1,836	74	198	426	330	298	196	276	826	208	215	730	0	0	5,613
ANA Anaheim	11,643	467	1,254	2,702	2,092	1,892	1,242	1,750	2,499	630	651	2,211	0	0	29,034
												•			
Total	32,890	2,845	4,599	10,485	6,074	7,370	6,324	7,562	17,063	7,814	4,217	17,197	5,613	29,034	159,087

TABLE 9 - RIDERSHIP PEAKING FACTORS

Origin-Destination Market	Peak Hour	Peak Shoulder	6 peak	10 off-peak		al Peaking tors
		Hour	hours	hours	PM Peak South- bound	PM Peak North- bound
Inter-regional	12%	10%	54%	46%	1.0	1.0
Within MTC territory	17%	11%	67%	33%	1.2	0.8
Within SCAG territory	15%	10%	61%	39%	0.9	1.1

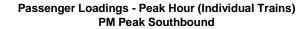
For the peak hour, average peak shoulder hour and average off-peak hour, station-to-station ridership was allocated among the available trains operating during those hours. Where choices among both express and local trains exist, a higher percentage of trips is allocated to the faster express services. Within each hour, overall demand is constrained by trainset seating capacity. Where the initial allocation of trips resulted in some trains being over capacity, a portion of the affected station-to-station loads were re-assigned to trains with available seating capacity operating within the same hour.

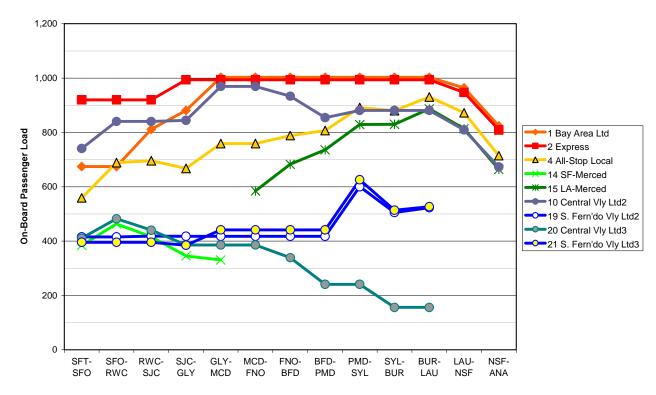


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The graphs on the following pages show the estimated passenger loadings on the various train types for each station-to-station segment. In all cases, passenger loads can be kept within the 1,000 seat capacity of a 400 m trainset. The express services require 400 m trainsets all day long. The all-stop local trains, selected limited stop trains, and the Anaheim-Merced local trains all have passenger loads between 500 and 1,000 passengers, necessitating 400 m trainsets. All off-peak trains other than the hourly expresses have passenger loads under 500 and can be accommodated on 200 m trainsets.

FIGURE 1 – ESTIMATED PASSENGER LOADS IN 2030 – EVENING PEAK HOUR SOUTHBOUND





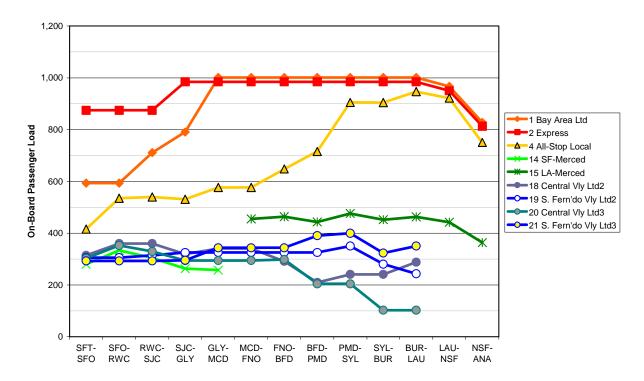


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FIGURE 2 – ESTIMATED PASSENGER LOADS IN 2030 – EVENING PEAK SHOULDER HOUR SOUTHBOUND

Passenger Loadings - Avg Train in Peak Shoulder Hour PM Peak Southbound





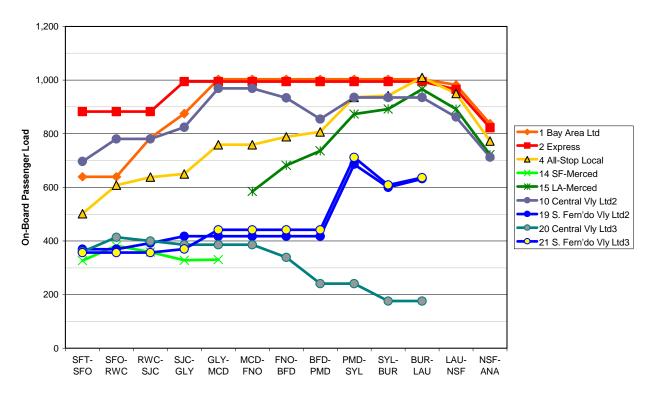
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FIGURE 3 – ESTIMATED PASSENGER LOADS IN 2030 – EVENING PEAK HOUR NORTHBOUND

Passenger Loadings - Peak Hour (Individual Train) PM Peak Northbound





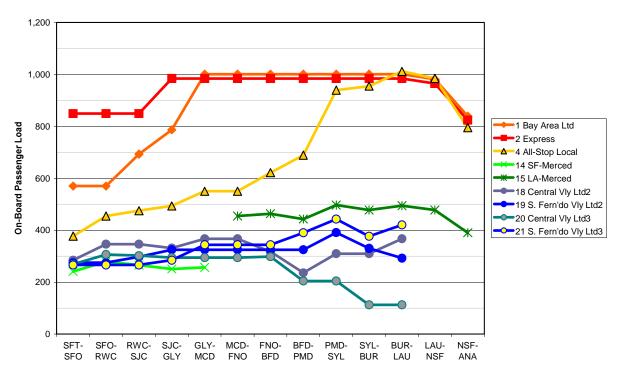
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FIGURE 4 – ESTIMATED PASSENGER LOADS IN 2030 – EVENING PEAK SHOULDER HOUR NORTHBOUND

Passenger Loadings - Avg Train in Peak Shoulder Hour PM Peak Northbound



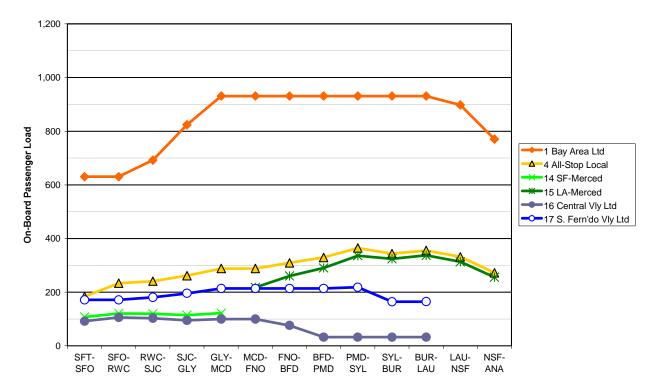


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FIGURE 5 – ESTIMATED PASSENGER LOADS IN 2030 – AVERAGE OFF-PEAK

Passenger Loadings - Avg Off-Peak Train Southbound / Northbound





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5. FLEET REQUIREMENTS

EQUIPMENT CYCLES

The concept level train schedule presented in Appendix A, which shows 260 daily revenue trains, was analyzed to estimate the number of trainsets based upon the number of 200 m and 400 m trainsets required to meet forecasted 2030 demand. Trains arriving at a terminal station are assumed to lay over at the platform for a certain period of time, for passenger alighting train servicing/inspection and passenger boarding, then depart in the opposite direction as the next available departing revenue train. This analysis generally adhered to the minimum terminal layover times presented in Table 2. In certain cases, shorter layover times were assumed in order to keep the number of trainsets to a reasonable minimum and to avoid inordinately long layovers, which would occupy terminal station or yard tracks for extended periods of time. Except during the late evening time period, train sets are generally available at the SFT and ANA terminals to provide "protection" for short connections from potentially delayed trains. These additional equipment sets would be culled from the 400 m local and limited trains operating during the morning peak period that continue during the mid-day period as 200 m trains. The train turns at the endpoint terminals are balanced during the mid-day and late evening off-peak hours. During the peaks, additional directional service is offered, so a relatively small number of trains are designated for mid-day yard storage in lieu of making a revenue turn.

Most trainsets are able to make 3-4 trips between the Bay area and Los Angeles basin over the course of a service day. Selected trains (one per hour each way) operate to and from Merced. At Merced, these trains then turn for the next available train operating towards the alternate terminal (i.e., a San Francisco-Merced train will lay over at Merced and turn for a Merced-Anaheim train).

REVENUE TRAINSETS

A "baseline" total of sixty five (65), 200 m trainsets were estimated to operate the 260 daily train schedule in revenue service. An additional twenty-nine (29), 200m sets are required to "fill out" the 400m trainsets that serve the peak periods (and all-day express services), as shown in Table 10.

TABLE 10 – 200M TRAIN SECTIONS NEEDED TO "FILL OUT" 400M TRAINS

Bay Area Limited	9
Express	6
All-Stop Local	6
Anaheim-LA-Merced	2
Central Valley Limited	2
San Fernando Valley Limited	4
Total	29



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6. TRAIN STORAGE REQUIREMENTS

The number of trainsets estimated to be stored at each terminal location during both the overnight period and the mid-day off-peak period was calculated for the Phase 1 service plan based on the Phase 1 equipment cycles. The sixty five (65) revenue trainset consists required for Phase 1, includes thirty-six (36) 200m trainsets and twenty-nine (29) 400m trainsets, were distributed among the four terminals for overnight storage as follows:

TABLE 11 – OVERNIGHT TRAIN STORAGE REQUIREMENTS

(Revenue Trainsets)

Location	200 m	400 m	Total	200 m	400 m Yard
	Sets	Sets	Trainsets	Equivalents	Tracks*
San Francisco	14	[13] 4 BayArea Ltd 3 Express 2 SF Vly Ltd 1 CenVly Ltd 3 All-Stop	27	40	20
Los Angeles	13	[2] 2 SF Vly Ltd	15	17	9
Anaheim	4	[13] 5 BayArea Ltd 3 Express 1 CenVly Ltd 3 All-Stop 1 LA-Merced	17	30	15
Merced	5	[1] 1 LA-Merced	6	7	4
Total	36	29	65	94	48

^{*} Additional tracks will be required at most locations for train maneuvering and to support required maintenance functions. Allowances for extensions to Sacramento and San Diego to satisfy full system needs are not included and will be added later at the conclusion of the Sacramento and San Diego extensions Study which will follow this analysis and report.

The overnight train storage requirements influence the sizes of the required storage yards capacities significantly. Train storage yards can be configured in several different ways, depending upon the size and shape of the available property for yard storage. Yards could be configured as a series of double-ended 400m tracks capable of storing either one 400m train or two 200m trains. Or, yards could comprise a combination of 400m and 200m long tracks. The storage yards are assumed to be located in reasonable proximity to the terminal stations, to minimize the extent of non-revenue or "deadhead" train movements, although the yards do not need to be immediately adjacent to the stations. Detailed operations analysis of the terminal stations, storage yards and connecting trackage have not yet been performed but are planned to be undertaken at a future stage of project development. Utilization of tracks in terminal stations to supplement overnight storage capacity will be examined during this analysis.



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All sixty five trainset consists are forecasted to be in active revenue during both the morning and afternoon peak periods. The mid-day off-peak train schedule (between approximately 11:00 AM and 3:00 PM) can be operated with fifty-eight revenue trainsets. The remaining seven trainsets (all 400m long) will be stored in the terminal and yards, along with an additional thirteen (13) 200m sets culled from trains that need to be 400m long to meet peak demand but which can be reduced to 200m long during the mid-day period to reduce the quantity of off-peak empty seat-mileage. The number of required mid-day storage tracks, by location, is presented in the following table.

TABLE 12 – MID-DAY TRAIN STORAGE REQUIREMENTS

(Revenue Trainsets)

Location	200 m Extra Sets	400 m Sets	Total Trainsets	200 m Equivalents	400 m Yard Tracks
San Francisco	[6] 2 SF Vly Ltd 1 CenVly Ltd 3 All-Stop	[3] 3 Express	9	12	6
Los Angeles	2 SF Vly Ltd		2	2	1
Anaheim	[4] 3 All-Stop 1 LA-Merced	[4] 3 Express 1 CenVly Ltd	8	12	6
Merced	1 LA-Merced		1	1	1
Total	13	7	20	27	14



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Phase I Service Plan, R0

APPENDICES – PHASE 1 SERVICE PLAN CHARACTERISTICS

[A] BASE, WITH 7.0% RECOVERY TIME ALLOWANCE

To develop the base Phase 1 conceptual service plan and hypothetical train schedules, trains were applied to the schedule in the following sequence:

- San Francisco-Los Angeles-Anaheim Bay Area Limited service (Pattern #1) -(SFT-RWC-SJC-GLY-LAU-NSF-ANA)
 - Clockface departures on the hour southbound from SFT, with first departure at 5:00 AM and last departure at 9:00 PM
 - Clockface hourly departures northbound, from ANA at :35 and departing LAU at :00, with first departure at 4:35 AM and last departure at 8:35 PM
- 2. San Francisco-Los Angeles Express service (Pattern #2) (SFT-SJC-LAU)
 - Service provided only during the 3-hour morning and afternoon business travel peaks, one train per hour in each direction in each peak period
 - Clockface departures on the half hour southbound from SFT and northbound from LAU, with morning departures at approximately 5:30 AM, 6:30 AM and 7:30 AM and afternoon departures from Los Angeles at approximately 3:30 PM, 4:30 PM and 5:30 PM, and from Anaheim at :05 past the hour.
 - These trains are assumed to operate to Anaheim in Phase 1, in order to spread the peak period demand between the Bay Area and Anaheim among a greater number of trains.
- 3. San Fernando Valley Ltd. (Patterns #19 and #21 peak, #17 off-peak) Limited stop service between San Francisco and L.A., stopping at San Fernando Valley stations and generally bypassing Central Valley stops
 - 30-minute headways in both directions of travel all day long
 - Off-peak, southbound departures from SFT at :03 and :33; northbound departures from LAU at :10 and :40
 - Service operates without being overtaken
 - Service tapers after 7:00 pm
- 4. Central Valley Ltd. (Patterns #18 and #20 peak, #16 off-peak) Limited stop service between San Francisco and L.A. stopping at Fresno and Bakersfield and making limited stops within the San Fernando Valley
 - 30-minute headways in both directions of travel all day long
 - Off-peak, southbound departures from SFT at :08 and :38; northbound departures from LAU at :03 and :33
 - During off-peak hours, service operates without being overtaken
 - During peak hours, one of the two trains in each hour is overtaken in each direction (southbound at Fresno, northbound at Gilroy)
 - Peak train in each peak period operates to/from Anaheim (ANA) to provide additional required seating capacity at the height of the peak at Anaheim.



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- Service tapers after 7:00 pm
- 5. All-stop service, to ensure direct train service connectivity among all possible station pairs (Pattern #4)
 - Hourly service with clockface departure times, San Francisco to Anaheim all day long (Pattern #4, SFT-SFO-RWC-SJC-GLY-FNO-BFD-PMD-SYL-BUR-LAU-NSF-ANA)
 - Southbound trains depart SFT at :14
 - Northbound trains depart Anaheim (ANA) at :52, except during AM and PM business travel peaks, when these trains depart ANA at :46
 - During off-peak hours, the All-Stop trains are overtaken once per trip by limited stop trains, southbound at Bakersfield and northbound at Palmdale
 - During business travel peaks, southbound trains are overtaken twice, by the Super Express service, at Gilroy and by a limited stop train at Fresno; northbound All-Stop trains are overtaken once, at Bakersfield.
- 6. Anaheim-Los Angeles-Merced local service (Pattern #15)
 - Hourly service with clockface departure times, San Francisco to Merced making all intermediate stops (MCD-FNO-BFD-PMD-SYL-BUR-LAU-NSF-ANA)
 - Off-peak trains depart Merced southbound at :02 and depart Anaheim northbound at :20
 - Peak period trains have slightly different departure times on account of different overtake patterns: southbound from Merced at :19 and northbound from Anaheim at :19.
 - Provides for equipment rotations to/from storage and maintenance facility at Merced
 - These trains could be extended in the system expansions to Sacramento and San Diego
 - During off-peak times, these trains are overtaken by two closely-spaced express trains –
 northbound at Palmdale and southbound at Bakersfield (extra 6 minutes of dwell time)
 - During business travel peaks, southbound trains have the same double overtake at Bakersfield, and northbound trains are overtaken twice – at Palmdale and Fresno.
- 7. San Francisco-Merced local service (Pattern #14)
 - Hourly service with clockface departure times, San Francisco to Merced making all intermediate stops (SFT-SFO-RWC-SJC-GLY-MCD)
 - Southbound trains depart SFT at :47; northbound trains depart Merced at :37
 - Provides for equipment rotations to/from storage and maintenance facility at Merced
 - These trains could be extended in the system expansions to Sacramento and San Diego
 - The relatively short distance of operation for this train on the San Francisco-Los Angeles
 network makes it easier to "slot in" around other trains without triggering an overtake –
 hence its position at the end of the priority sequence.

A hypothetical daily timetable for this service plan is presented in Appendix A1. This same schedule is presented in stringline (time-distance) diagram format in Appendix A2. Equipment cycles and the patterns of movement of each trainset throughout the day are documented in Appendix A3.



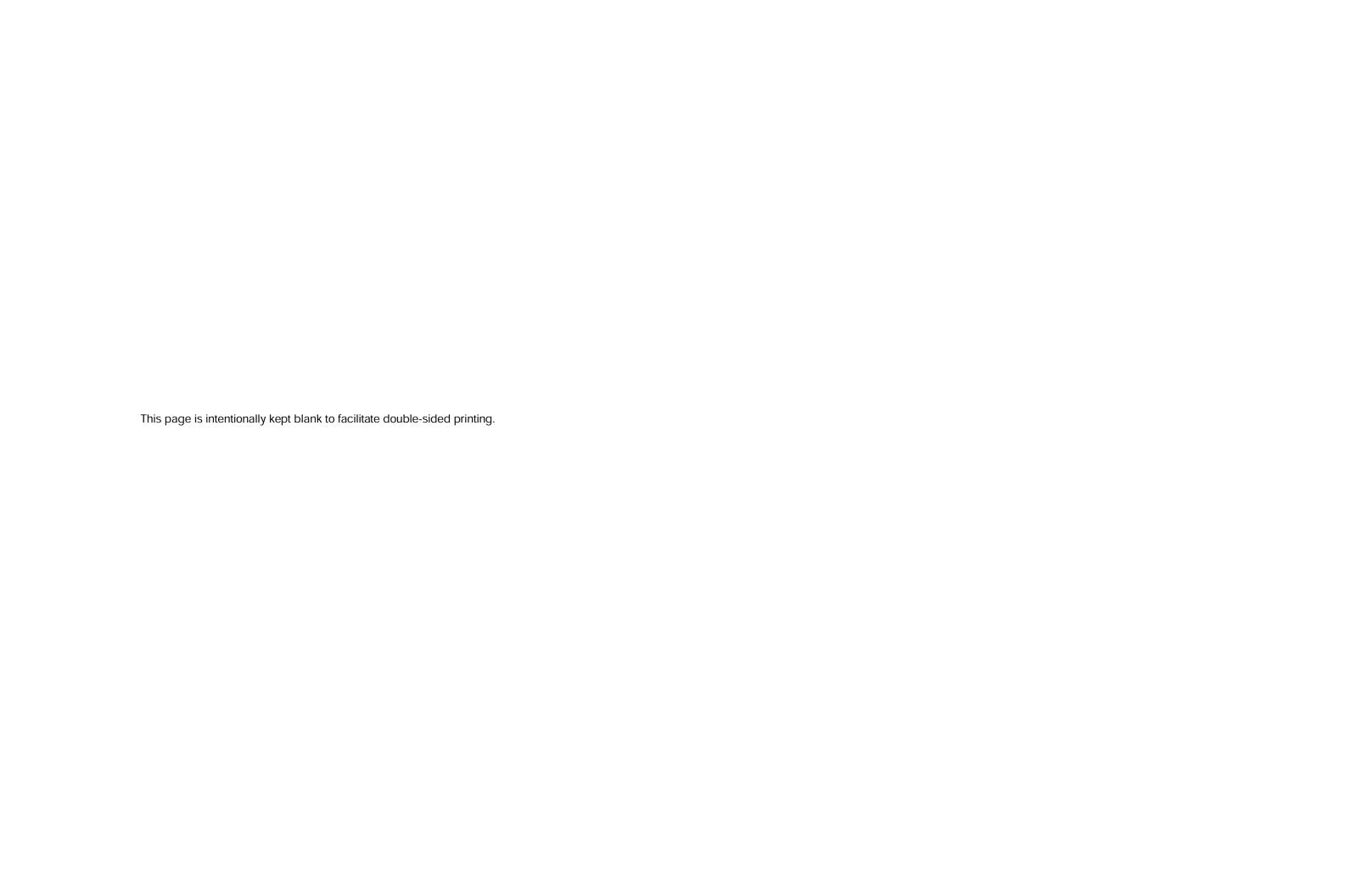
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California High-Speed Train Project

Phase I Service Plan, R0

A1. Hypothetical Timetable





CALIFORNIA HIGH-SPEED RAIL

CALIFORNIA HIGH-SPEE																																	
PHASE 1 TIMETA BASE SERVICE PLAN	BLE Turns from →																																
APPENDIX A1		Night	Reg	Peak O/T	Peak O/T	Peak O/T	Peak O/T	Reg	Peak O/T	Peak O/T	Reg	Reg	Peak O/T	Peak O/T	Peak O/T	Peak O/T	Reg	Peak O/T	Peak O/T	Reg	Reg	Peak O/T	Peak O/T	Peak O/T	Peak O/T	Reg	Peak O/T	Peak O/T	Reg	Reg	Reg	Reg	Reg
ALL ENDIA AT	Direction →	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
	Trainset → Train No. →	M1	1 S010500	2	M2 S140619	3	4	5	6	7	8	9	10 S190604	M5	11	12	13 S020629	14	15	16	17	18 S190704	8	19 S180708	20	21	22	23 S200737	24	16 S140902	25	M3 S170803	26
	Pattern →	S140519 14	1	S190504 19	14	S180508 18	S040514 4	S020529 2	S210533 21	S200537 20	S150547 15	S010600 1	19	S140719 14	\$100608 10	S040614 4	2	S210633 21	S200637 20	S150647	S010700 1	19	S140819 14	18	S040714 4	S020729	S210733 21	20	S150747 15	14	S010800 1	17	S160808 16
Southbound		L.A	Bay	S.Fern'do		Central			S.Fern'do	Central	S.F	Bay	S.Fern'do	L.A	Central			S.Fern'do	Central	S.F	Bay	S.Fern'do		Central			S.Fern'do	Central	S.F	L.A	,	S.Fern'do	Central
S	ervice Type →	Merced Local	Area Limited	Valley Limited	Merced Local	Valley Limited	All-Stop Local	Express	Valley Limited	Valley Limited	Merced Local	Area Limited	Valley Limited	Merced Local	Valley Limited	All-Stop Local	Express	Valley Limited	Valley Limited	Merced Local	Area Limited	Valley Limited	Merced Local	Valley Limited	All-Stop Local	Express	Valley Limited	Valley Limited	Merced Local	Merced Local	Area Limited	Valley Limited	Valley Limited
Mile Station		Local	Lillited	Lillincu	Local	Littilled	Local	LAPICSS	Liiiiicu	Liiiiicu	Local	Lillited	Limited	Local	Limitou	Local	LAPICSS	Limitou	Lillincu	Local	Lillillou	Lillincu	Local	Limited	Local	LAPICSS	Limited	Liiiiicu	Local	Local	Lillincu	Liiiiicu	Lillinou
0.0 SFT S.FTransb			5:00	5:04		5:08	5:14	5:29	5:33	5:37	5:47	6:00	6:04		6:08	6:14	6:29	6:33	6:37	6:47	7:00	7:04		7:08	7:14	7:29	7:33	7:37	7:47		8:00	8:03	8:08
14.7 SFO Millbrae 26.4 RWC Redwood C	Dep ity Dep		5:20	5:24		5:24 5:34	5:30 5:40			5:53 6:03	6:03 6:13	6:20	6:24		6:24	6:30 6:40			6:53 7:03	7:03 7:13	7:20	 7:24		7:24 7:34	7:30 7:40			7:53 8:03	8:03 8:13		8:20	 8:23	8:24 8:34
48.0 SJC San Jose	Dep		5:36	5:40		5:50	5:56	6:00	6:05	6:19	6:29	6:36	6:40		6:50	6:56	7:00	7:05	7:19	7:29	7:36	7:40		7:50	7:56	8:00	8:05	8:19	8:29		8:36	8:39	8:50
77.7 GLY Gilroy	Arr Dep		5:53	5:57		6:07	6:11 6:16		6:21		6:46	6:53	6:57		7:07	7:11 7:16		7:21		7:46	7:53	7:57		8:07	8:11 8:16		8:21		8:46		8:53	8:56	9:07
187.5 MCD Merced	Arr		1	1		1	1		0.21		7:21	1	1		1.01	1		1.21		8:21	1.00	1.51		1	1		J.21		9:21		0.00	J.50	1
404.5. FNO. France	Dep	5:19			6:19	0:40	V			\longrightarrow				7:19	7.40								8:19	0.40	V					9:02			*
191.5 FNO Fresno	Arr Dep	5:42			6:42	6:48 6:52	7:03			7:14				7:42	7:48 7:52	8:03			8:14				8:42	8:48 8:52	9:03			9:14		9:25			9:50
302.8 BFD Bakersfield	Arr				7:21				+					8:21				*					9:21				+			10:04			
387.4 PMD Palmdale	Dep Arr	6:22		- +	7:29				7:38	7:54			- +	8:29				8:38	8:54			\rightarrow	9:29				9:38	9:54		10:10		\rightarrow	10:30
	Dep	6:57		7:40	8:02	7:59	8:15		8:11				8:40	9:02	8:59	9:15		9:11				9:40	10:02	9:59	10:15		10:11			10:44		10:39	
425.7 SYL Sylmar 436.3 BUR Burbank	Dep	7:19		8:02	8:24		8:36		8:33	8:44			9:02	9:24		9:36		9:33	9:44			10:02	10:24		10:36		10:33	10:44		11:06		11:01	
430.3 BUK BUIDANK	Arr Dep	7:28	+		8:33	8:25	8:45	+	8:42			+		9:33	9:25	9:45	+	9:42			+		10:33	10:25	10:45	+	10:42			11:15	\	11:10	+
446.6 LAU L.A. Union S		7:36	8:00	8:15	8:42	8:34	8:54	8:18	8:51	8:57		9:00	9:15	9:42	9:34	9:54	9:18	9:51	9:57		10:00	10:15	10:42	10:34	10:54	10:18	10:51	10:57		11:23	11:00	11:19	11:27
461.8 NSF Norwalk	Dep Arr	7:38 7:50	8:02 8:14		8:44 8:55		8:56 9:08	8:20 8:32				9:02 9:14		9:44 9:55	9:36 9:49	9:56 10:08	9:20 9:32				10:02 10:14		10:44 10:55		10:56 11:08	10:20 10:32				11:25 11:37	11:02 11:14		
476.9 ANA Anaheim	Arr	8:01	8:25		9:07		9:19	8:43				9:25		10:07	9:59	10:19	9:43				10:25		11:07		11:19					11:48	11:25		
	Available →	8:41	9:05	8:55	9:47	9:14	9:59	9:23	9:31	9:37	8:01	10:05	9:55	10:47	10:39	10:59	10:23	10:31	10:37	9:01	11:05	10:55	11:47	11:14	11:59	11:23	11:31	11:37	10:01	12:28	12:05	11:59	12:07
																10.00	10.20					. 0.00	11.77				11.51	11.37	10.01				
	Turns for →															10.00	10.20					10.00	11.47				11.01	11.57	10.01				
	Turns for → Turns from →															10.00	10.20						11.47				11.31	11.37	10.01				
		Reg	Reg	Reg	Peak O/T	Peak O/T	Peak O/T	Reg	Peak O/T	Peak O/T	Peak O/T	Reg	Reg																			Reg	
		Reg NB	Reg NB	Reg NB	Peak O/T NB	Peak O/T NB	Peak O/T	Reg NB	Peak O/T NB	Peak O/T NB	Peak O/T	Reg NB	Reg NB	Peak O/T NB	Peak O/T		Reg NB		Peak O/T NB			Reg NB	Peak O/T		Peak O/T NB	Reg NB		Peak O/T	Reg NB		Reg NB	Reg NB	Reg NB
	Turns from → Direction → Trainset →	NB M3	NB 41	NB M4	NB 61	NB 62	NB 42	NB 43	NB 63	NB 64	NB 44	NB 45	NB M6	Peak O/T NB 65	Peak O/T NB 66	Peak O/T NB 46	Reg NB 47	Peak O/T NB 67	Peak O/T NB 68	Peak O/T NB 48	Reg NB 49	Reg NB 44	Peak O/T NB 69	Peak O/T NB 50	Peak O/T NB 51	Reg NB 52	Peak O/T NB 70	Peak O/T NB 71	Reg NB 53	Reg NB 54	Reg NB 48	NB 72	Reg NB 73
	Turns from →	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	Peak O/T NB	Peak O/T NB	Peak O/T NB	Reg NB	Peak O/T NB	Peak O/T NB	Peak O/T NB	Reg NB	Reg NB	Peak O/T	Peak O/T NB	Peak O/T NB	Reg NB	Peak O/T NB	Peak O/T NB	Reg NB	Reg NB	Reg NB	NB	Reg NB
<u>Northbound</u>	Turns from → Direction → Trainset → Train No. → Pattern →	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay	NB M4 N150637 15 S.F	NB 61 N190503 19 S.Fern'do	NB 62 N180507 18 Central	NB 42 N040446 4	NB 43 N020505	NB 63 N200533 20 Central	NB 64 N210535 21 S.Fern'do	NB 44 N140519 14 L.A	NB 45 N010535 1 Bay	NB M6 N150737 15 S.F	Peak O/T NB 65 N190603 19 S.Fern'do	Peak O/T NB 66 N180607 18 Central	Peak O/T NB 46 N040546	Reg NB 47 N020605	Peak O/T	Peak O/T NB 68 N210635 21 S.Fern'do	Peak O/T NB 48 N140619 14 L.A	Reg NB 49 N010635	Reg NB 44 N150837 15 S.F	Peak O/T NB 69 N190703 19 S.Fern'do	Peak O/T NB 50 N100642 10 Central	Peak O/T NB 51 N040646	Reg NB 52 N020705	Peak O/T	Peak O/T	Reg NB 53 N140720 14 L.A	Reg NB 54 N010735 1 Bay	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central	Reg NB 73 N170810 17 S.Fern'do
	Turns from → Direction → Trainset → Train No. →	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley	NB 62 N180507 18 Central Valley	NB 42 N040446 4 All-Stop	NB 43 N020505 2	NB 63 N200533 20 Central Valley	NB 64 N210535 21 S.Fern'do Valley	NB 44 N140519 14 L.A Merced	NB 45 N010535 1 Bay Area	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley	Peak O/T NB 66 N180607 18 Central Valley	Peak O/T NB 46 N040546 4 All-Stop	Reg NB 47 N020605	Peak O/T NB 67 N200633 20 Central Valley	Peak O/T NB 68 N210635 21 S.Fern'do Valley	Peak O/T NB 48 N140619 14 L.A Merced	Reg NB 49 N010635 1 Bay Area	Reg NB 44 N150837 15 S.F Merced	Peak O/T NB 69 N190703 19 S.Fern'do Valley	Peak O/T NB 50 N100642 10 Central Valley	Peak O/T NB 51 N040646 4 All-Stop	Reg NB 52 N020705 2	Peak O/T NB 70 N200733 20 Central Valley	Peak O/T NB 71 N210735 21 S.Fern'do Valley	Reg NB 53 N140720 14 L.A	Reg NB 54 N010735 1 Bay Area	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley	Reg NB 73 N170810 17 S.Fern'do Valley
Mile <u>Station</u>	Turns from → Direction → Trainset → Train No. → Pattern →	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited	NB M4 N150637 15 S.F	NB 61 N190503 19 S.Fern'do	NB 62 N180507 18 Central	NB 42 N040446 4 All-Stop Local	NB 43 N020505 2 Express	NB 63 N200533 20 Central	NB 64 N210535 21 S.Fern'do	NB 44 N140519 14 L.A Merced Local	NB 45 N010535 1 Bay Area Limited	NB M6 N150737 15 S.F	Peak O/T NB 65 N190603 19 S.Fern'do	Peak O/T NB 66 N180607 18 Central	Peak O/T NB 46 N040546 4 All-Stop Local	Reg NB 47 N020605 2	Peak O/T	Peak O/T NB 68 N210635 21 S.Fern'do Valley	Peak O/T NB 48 N140619 14 L.A Merced Local	Reg NB 49 N010635 1 Bay Area Limited	Reg NB 44 N150837 15 S.F	Peak O/T NB 69 N190703 19 S.Fern'do	Peak O/T NB 50 N100642 10 Central Valley Limited	Peak O/T NB 51 N040646 4 All-Stop Local	Reg NB 52 N020705 2 Express	Peak O/T NB 70 N200733 20 Central Valley	Peak O/T	Reg NB 53 N140720 14 L.A Merced Local	Reg NB 54 N010735 1 Bay Area Limited	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley	Reg NB 73 N170810 17 S.Fern'do
Mile <u>Station</u> 0.0 ANA Anaheim	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type →	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley	NB 62 N180507 18 Central Valley	NB 42 N040446 4 All-Stop Local	NB 43 N020505 2 Express	NB 63 N200533 20 Central Valley	NB 64 N210535 21 S.Fern'do Valley	NB 44 N140519 14 L.A Merced Local	NB 45 N010535 1 Bay Area Limited	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley	Peak O/T NB 66 N180607 18 Central Valley	Peak O/T NB 46 N040546 4 All-Stop Local 5:46	Reg NB 47 N020605 2 Express	Peak O/T NB 67 N200633 20 Central Valley	Peak O/T NB 68 N210635 21 S.Fern'do Valley	Peak O/T NB 48 N140619 14 L.A Merced Local	Reg NB 49 N010635 1 Bay Area Limited	Reg NB 44 N150837 15 S.F Merced	Peak O/T NB 69 N190703 19 S.Fern'do Valley	Peak O/T NB 50 N100642 10 Central Valley Limited	Peak O/T NB 51 N040646 4 All-Stop Local	Reg NB 52 N020705 2 Express	Peak O/T NB 70 N200733 20 Central Valley	Peak O/T NB 71 N210735 21 S.Fern'do Valley	Reg NB 53 N140720 14 L.A Merced Local	Reg NB 54 N010735 1 Bay Area Limited	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley	Reg NB 73 N170810 17 S.Fern'do Valley
Mile <u>Station</u>	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley	NB 62 N180507 18 Central Valley	NB 42 N040446 4 All-Stop Local	NB 43 N020505 2 Express	NB 63 N200533 20 Central Valley	NB 64 N210535 21 S.Fern'do Valley	NB 44 N140519 14 L.A Merced Local	NB 45 N010535 1 Bay Area Limited	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley	Peak O/T NB 66 N180607 18 Central Valley	Peak O/T NB 46 N040546 4 All-Stop Local	Reg NB 47 N020605 2	Peak O/T NB 67 N200633 20 Central Valley	Peak O/T NB 68 N210635 21 S.Fern'do Valley	Peak O/T NB 48 N140619 14 L.A Merced Local	Reg NB 49 N010635 1 Bay Area Limited	Reg NB 44 N150837 15 S.F Merced	Peak O/T NB 69 N190703 19 S.Fern'do Valley	Peak O/T NB 50 N100642 10 Central Valley Limited	Peak O/T NB 51 N040646 4 All-Stop Local	Reg NB 52 N020705 2 Express	Peak O/T NB 70 N200733 20 Central Valley	Peak O/T NB 71 N210735 21 S.Fern'do Valley	Reg NB 53 N140720 14 L.A Merced Local	Reg NB 54 N010735 1 Bay Area Limited	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley	Reg NB 73 N170810 17 S.Fern'do Valley
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Sta. Arr Dep	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited 4:35 4:46	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley Limited	NB 62 N180507 18 Central Valley Limited	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11	NB 43 N020505 2 Express 5:05 5:16	NB 63 N200533 20 Central Valley Limited	NB 64 N210535 21 S.Fern'do Valley Limited	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44	NB 45 N010535 1 Bay Area Limited 5:35 5:46	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited	Peak O/T NB 66 N180607 18 Central Valley Limited	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11	Reg NB 47 N020605 2 Express 6:05 6:16	Peak O/T NB 67 N200633 20 Central Valley Limited	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46	Reg NB 44 N150837 15 S.F Merced	Peak O/T NB 69 N190703 19 S.Fern'do Valley Limited	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11	Reg NB 52 N020705 2 Express 7:05 7:16	Peak O/T NB 70 N200733 20 Central Valley Limited	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley Limited	Reg NB 73 N170810 17 S.Fern'do Valley Limited
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S 40.6 BUR Burbank	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Dep Dep Dep Dep	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley Limited	NB 62 N180507 18 Central Valley Limited 5:07 5:17	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11	NB 43 N020505 2 Express 5:05 5:16 5:28	NB 63 N200533 20 Central Valley Limited	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited	Peak O/T NB 66 N180607 18 Central Valley Limited	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11	Reg NB 47 N020605 2 Express 6:05 6:16 6:28	Peak O/T NB 67 N200633 20 Central Valley Limited	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58	Reg NB 44 N150837 15 S.F Merced	Peak O/T NB 69 N190703 19 S.Fern'do Valley Limited	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11	Reg NB 52 N020705 2 Express 7:05 7:16 7:28	Peak O/T NB 70 N200733 20 Central Valley Limited	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:45	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley Limited	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Sta. Arr Dep	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17	NB 62 N180507 18 Central Valley Limited 5:07 5:17	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30	NB 43 N020505 2 Express 5:05 5:16 5:28	NB 63 N200533 20 Central Valley Limited	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 6:03 6:23	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30	Reg NB 47 N020605 2 Express 6:05 6:16 6:28	Peak O/T NB 67 N200633 20 Central Valley Limited	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58	Reg NB 44 N150837 15 S.F Merced	Peak O/T	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30	Reg NB 52 N020705 2 Express 7:05 7:16 7:28	Peak O/T NB 70 N200733 20 Central Valley Limited	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:45 7:54	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley Limited	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29
Mile <u>Station</u> 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Dep Arr Dep Dep Dep Dep	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley Limited	NB 62 N180507 18 Central Valley Limited 5:07 5:17	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30	NB 43 N020505 2 Express 5:05 5:16 5:28	NB 63 N200533 20 Central Valley Limited	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54 6:03	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30	Reg NB 47 N020605 2 Express 6:05 6:16 6:28	Peak O/T NB 67 N200633 20 Central Valley Limited	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58	Reg NB 44 N150837 15 S.F Merced	Peak O/T	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30 7:51	Reg NB 52 N020705 2 Express 7:05 7:16 7:28	Peak O/T NB 70 N200733 20 Central Valley Limited	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:45	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley Limited	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union \$ 40.6 BUR Burbank 51.1 SYL Sylmar	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Dep Dep Arr	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17	NB 62 N180507 18 Central Valley Limited 5:07 5:17	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30	NB 43 N020505 2 Express 5:05 5:16 5:28	NB 63 N200533 20 Central Valley Limited 5:33 5:47	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:54 6:03 6:23 6:27	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30	Reg NB 47 N020605 2 Express 6:05 6:16 6:28	Peak O/T NB 67 N200633 20 Central Valley Limited 6:33 6:47	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58	Reg NB 44 N150837 15 S.F Merced	Peak O/T	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30	Reg NB 52 N020705 2 Express 7:05 7:16 7:28	Peak O/T NB 70 N200733 20 Central Valley Limited 7:33 7:47	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:45 7:54	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley Limited	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29
Mile <u>Station</u> 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Dep Arr Dep Arr Dep Arr Dep Arr	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17	NB 62 N180507 18 Central Valley Limited 5:07 5:17 5:42	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30 5:51 6:22 6:27	NB 43 N020505 2 Express 5:05 5:16 5:28	NB 63 N200533 20 Central Valley Limited 5:33 5:47	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54 6:26	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54 6:03 6:23 6:27 7:02 7:41	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17 6:42	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30 6:51 7:22 7:27	Reg NB 47 N020605 2 Express 6:05 6:16 6:28	Peak O/T NB 67 N200633 20 Central Valley Limited 6:33 6:47 7:37	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54 7:26	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23 7:27 8:02 8:41	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58	Reg NB 44 N150837 15 S.F Merced	Peak O/T	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17 7:42	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30 7:51 8:22 8:27	Reg NB 52 N020705 2 Express 7:05 7:16 7:28	Peak O/T	Peak O/T	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24 8:30 9:05	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley Limited 8:03 9:00	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfield 174.1 BFD Bakersfield 174.1 BFD Bakersfield 174.1 BFD 1.0 Anaheim 1.0 Anaheim	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Arr Dep Arr Dep Arr Dep Arr Dep Arr Dep Arr Dep	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17	NB 62 N180507 18 Central Valley Limited 5:07 5:17 	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30 5:51 6:22 6:27	NB 43 N020505 2 Express 5:05 5:16 5:28	NB 63 N200533 20 Central Valley Limited 5:33 5:47	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54 6:26	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54 6:03 6:23 6:27 7:02	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17 6:42	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30 6:51 7:22 7:27	Reg NB 47 N020605 2 Express 6:05 6:16 6:28	Peak O/T NB 67 N200633 20 Central Valley Limited 6:33 6:47	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54 7:26	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23 7:27	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58	Reg NB 44 N150837 15 S.F Merced	Peak O/T	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17 7:42	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30 7:51 8:22	Reg NB 52 N020705 2 Express 7:05 7:16 7:28	Peak O/T NB 70 N200733 20 Central Valley Limited 7:33 7:47	Peak O/T	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24 8:30	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley Limited 8:03	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union \$ 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfield 285.4 FNO Fresno 354.4 MCD Merced	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Dep Arr Dep Arr Dep Arr Dep Arr	NB M3 N150537 15 S.F	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58	NB M4 N150637 15 S.F Merced	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17	NB 62 N180507 18 Central Valley Limited 5:07 5:17 5:42	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30 5:51 6:22 6:27	NB 43 N020505 2 Express 5:05 5:16 5:28	NB 63 N200533 20 Central Valley Limited 5:33 5:47	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54 6:26	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54 6:03 6:23 6:27 7:02 7:41 7:45	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58	NB M6 N150737 15 S.F Merced	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17 6:42 7:49	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30 6:51 7:22 7:27	Reg NB 47 N020605 2 Express 6:05 6:16 6:28	Peak O/T NB 67 N200633 20 Central Valley Limited 6:33 6:47 7:37	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54 7:26	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23 7:27 8:02 8:41 8:45	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58	Reg NB 44 N150837 15 S.F Merced	Peak O/T	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17 7:42 8:49	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30 7:51 8:22 8:27	Reg NB 52 N020705 2 Express 7:05 7:16 7:28	Peak O/T	Peak O/T	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24 8:30 9:05	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58	Reg NB 48 N150937 15 S.F	NB 72 N160803 16 Central Valley Limited 8:03 9:00	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfield 285.4 FNO Fresno	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Arr	NB M3 N150537 15 S.F Merced Local	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58 5:00	NB M4 N150637 15 S.F Merced Local	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17 5:39	NB 62 N180507 18 Central Valley Limited 5:07 5:17 5:42	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30 5:51 6:22 6:27 7:08 ↓	NB 43 N020505 2 Express 5:05 5:16 5:28	NB 63 N200533 20 Central Valley Limited 5:33 5:47	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54 6:26 6:49	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54 6:03 6:23 6:27 7:02 7:41 7:45	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58 6:00	NB M6 N150737 15 S.F Merced Local	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17 6:39	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17 6:42 7:49	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30 6:51 7:22 7:27 8:08	Reg NB 47 N020605 2 Express 6:05 6:16 6:28	Peak O/T NB 67 N200633 20 Central Valley Limited 6:33 6:47 7:37	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54 7:26	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23 7:27 8:02 8:41 8:45	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58 7:00	Reg NB 44 N150837 15 S.F Merced Local	Peak O/T NB 69 N190703 19 S.Fern'do Valley Limited 7:03 7:17 7:39	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17 7:42 8:49	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30 7:51 8:22 8:27 9:08	Reg NB 52 N020705 2 Express 7:05 7:16 7:28	Peak O/T	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:45 7:54 8:26 8:49	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24 8:30 9:05	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58 8:00	Reg NB 48 N150937 15 S.F Merced Local	NB 72 N160803 16 Central Valley Limited 8:03 9:00 9:40	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29 8:51
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfield 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jose	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Dep Arr Dep Dep	NB M3 N150537 15 S.F Merced Local	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58 5:00 7:09	NB M4 N150637 15 S.F Merced Local 6:37 7:13 7:30	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17 5:39	NB 62 N180507 18 Central Valley Limited 5:07 5:17 5:42	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30 5:51 6:22 6:27 7:08	NB 43 N020505 2 Express 5:05 5:16 5:28	NB 63 N200533 20 Central Valley Limited 5:33 5:47 6:37 7:17	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54 6:26 6:49 8:06 8:23	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54 6:03 6:23 6:27 7:02 7:41 7:45	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58 6:00 8:09 8:24	NB M6 N150737 15 S.F Merced Local 7:37 8:13 8:30	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17 6:39	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17 6:42 7:49	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30 6:51 7:22 7:27 8:08 \$\begin{array}{c} 8:51 9:08	Reg NB 47 N020605 2 Express 6:05 6:16 6:28	Peak O/T NB 67 N200633 20 Central Valley Limited 6:33 6:47 7:37 8:17	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54 7:26 7:49 9:06 9:23	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23 7:27 8:02 8:41 8:45	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58 7:00	Reg NB 44 N150837 15 S.F Merced Local 8:37 9:13	Peak O/T	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17 7:42 8:49	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30 7:51 8:22 8:27 9:08 \$\sqrt{9:51} 10:08	Reg NB 52 N020705 2 Express 7:05 7:16 7:28	Peak O/T NB 70 N200733 20 Central Valley Limited 7:33 7:47 8:37	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:45 7:54 8:26 8:49 10:06 10:23	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24 8:30 9:05	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58 8:00	Reg NB 48 N150937 15 S.F Merced Local 9:37 10:13 10:30	NB 72 N160803 16 Central Valley Limited 8:03 9:00 9:40 10:24 10:41	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29 8:51
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfield 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jose 450.5 RWC Redwood C	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Arr Dep	NB M3 N150537 15 S.F Merced Local 5:37 6:13 6:30 6:44	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58 5:00 7:09 7:24 7:39	NB M4 N150637 15 S.F Merced Local 6:37 7:13 7:30 7:44	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17 5:39	NB 62 N180507 18 Central Valley Limited 5:07 5:17 5:42 6:49 7:30 7:36 7:53	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30 5:51 6:22 6:27 7:08 √ 7:51 8:08 8:22	NB 43 N020505 2 Express 5:05 5:16 5:28 5:30 7:50	NB 63 N200533 20 Central Valley Limited 5:33 5:47 6:37 7:17 8:12 8:26	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54 6:26 6:49 8:06 8:23 8:36	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54 6:03 6:23 6:27 7:02 7:41 7:45	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58 6:00 8:09 8:24 8:39	NB M6 N150737 15 S.F Merced Local 7:37 8:13 8:30 8:44	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17 6:39	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17 6:42 7:49 8:30 8:36 8:53	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30 6:51 7:22 7:27 8:08 \$\$\square\$\$	Reg NB 47 N020605 2 Express 6:05 6:16 6:28 6:30	Peak O/T NB 67 N200633 20 Central Valley Limited 6:33 6:47 7:37 8:17	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54 7:26 7:49 9:06 9:23 9:36	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23 7:27 8:02 8:41 8:45	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58 7:00 9:09 9:24 9:39	Reg NB 44 N150837 15 S.F Merced Local 8:37 9:13 9:30 9:44	Peak O/T	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17 7:42 8:49 9:30 9:36 9:53	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30 7:51 8:22 8:27 9:08 \$\sqrt{10:08} 10:08 10:22	Reg NB 52 N020705 2 Express 7:05 7:16 7:28 7:30	Peak O/T NB 70 N200733 20 Central Valley Limited 7:33 7:47 8:37 9:17	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:45 7:54 8:26 8:49 10:06 10:23 10:36	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24 8:30 9:05	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58 8:00 10:09 10:24 10:39	Reg NB 48 N150937 15 S.F Merced Local 9:37 10:13 10:30 10:44	NB 72 N160803 16 Central Valley Limited 8:03 9:00 9:40 10:24 10:41 10:55	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29 8:51 10:34 10:51 11:05
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfield 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jose	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Arr Dep	NB M3 N150537 15 S.F Merced Local 5:37 6:13 6:30	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58 5:00 7:09	NB M4 N150637 15 S.F Merced Local 6:37 7:13 7:30 7:44 7:55	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17 5:39 7:23 7:40 7:54	NB 62 N180507 18 Central Valley Limited 5:07 5:17 5:42 6:49 7:30 7:36 7:53 8:11	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30 5:51 6:22 6:27 7:08 ↓ 7:51 8:08 8:22 8:32	NB 43 N020505 2 Express 5:05 5:16 5:28 5:30 7:50	NB 63 N200533 20 Central Valley Limited 5:33 5:47 6:37 7:17	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54 6:26 6:49 8:06 8:23	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54 6:03 6:23 6:27 7:02 7:41 7:45	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58 6:00 8:09 8:24	NB M6 N150737 15 S.F Merced Local 7:37 8:13 8:30 8:44 8:55	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17 6:39 ### 8:23 8:40 8:54	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17 6:42 7:49 8:30 8:36 8:53	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30 6:51 7:22 7:27 8:08 8:51 9:08 9:22 9:32	Reg NB 47 N020605 2 Express 6:05 6:16 6:28 6:30	Peak O/T NB 67 N200633 20 Central Valley Limited 6:33 6:47 7:37 8:17	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54 7:26 7:49 9:06 9:23	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23 7:27 8:02 8:41 8:45	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58 7:00	Reg NB 44 N150837 15 S.F Merced Local 8:37 9:13	Peak O/T NB 69 N190703 19 S.Fern'do Valley Limited 7:03 7:17 7:39 9:23 9:40 9:54	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17 7:42 8:49 9:30 9:36 9:53	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30 7:51 8:22 8:27 9:08 \$\sqrt{10:08} 10:22 10:32	Reg NB 52 N020705 2 Express 7:05 7:16 7:28 7:30	Peak O/T NB 70 N200733 20 Central Valley Limited 7:33 7:47 8:37	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:45 7:54 8:26 8:49 10:06 10:23	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24 8:30 9:05	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58 8:00 10:09 10:24 10:39	Reg NB 48 N150937 15 S.F Merced Local 9:37 10:13 10:30	NB 72 N160803 16 Central Valley Limited 8:03 9:00 9:40 10:24 10:41 10:55 11:05	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29 8:51 10:34 10:51 11:05
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union S 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfield 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jose 450.5 RWC Redwood C 462.2 SFO Millbrae	Turns from → Direction → Trainset → Train No. → Pattern → ervice Type → Dep Dep Dep Dep Arr Dep	NB M3 N150537 15 S.F Merced Local 5:37 6:13 6:30 6:44 6:55	NB 41 N010435 1 Bay Area Limited 4:35 4:46 4:58 5:00 7:09 7:24 7:39	NB M4 N150637 15 S.F Merced Local 6:37 7:13 7:30 7:44 7:55	NB 61 N190503 19 S.Fern'do Valley Limited 5:03 5:17 5:39 7:23 7:40 7:54	NB 62 N180507 18 Central Valley Limited 5:07 5:17 5:42 6:49 7:30 7:36 7:53 8:11	NB 42 N040446 4 All-Stop Local 4:46 4:57 5:09 5:11 5:30 5:51 6:22 6:27 7:08 ↓ 7:51 8:08 8:22 8:32	NB 43 N020505 2 Express 5:05 5:16 5:28 5:30 7:50	NB 63 N200533 20 Central Valley Limited 5:33 5:47 6:37 7:17 8:12 8:26 8:37	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:45 5:54 6:26 6:49 ▼ 8:06 8:23 8:36	NB 44 N140519 14 L.A Merced Local 5:19 5:30 5:42 5:44 5:54 6:03 6:23 6:27 7:02 7:41 7:45	NB 45 N010535 1 Bay Area Limited 5:35 5:46 5:58 6:00 8:24 8:39	NB M6 N150737 15 S.F Merced Local 7:37 8:13 8:30 8:44 8:55	Peak O/T NB 65 N190603 19 S.Fern'do Valley Limited 6:03 6:17 6:39 ### 8:23 8:40 8:54	Peak O/T NB 66 N180607 18 Central Valley Limited 6:07 6:17 6:42 7:49 8:30 8:36 8:36 8:53	Peak O/T NB 46 N040546 4 All-Stop Local 5:46 5:57 6:09 6:11 6:30 6:51 7:22 7:27 8:08 8:51 9:08 9:22 9:32	Reg NB 47 N020605 2 Express 6:05 6:16 6:28 6:30	Peak O/T NB 67 N200633 20 Central Valley Limited 6:33 6:47 7:37 8:17 9:12 9:26 9:37	Peak O/T NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:45 6:54 7:26 7:49 9:06 9:23 9:36	Peak O/T NB 48 N140619 14 L.A Merced Local 6:19 6:30 6:42 6:44 6:54 7:03 7:23 7:27 8:02 8:41 8:45	Reg NB 49 N010635 1 Bay Area Limited 6:35 6:46 6:58 7:00 9:09 9:24 9:39	Reg NB 44 N150837 15 S.F Merced Local 8:37 9:13 9:30 9:44	Peak O/T NB 69 N190703 19 S.Fern'do Valley Limited 7:03 7:17 7:39 9:23 9:40 9:54	Peak O/T NB 50 N100642 10 Central Valley Limited 6:42 6:53 7:05 7:07 7:17 7:42 8:49 9:30 9:36 9:53 10:11	Peak O/T NB 51 N040646 4 All-Stop Local 6:46 6:57 7:09 7:11 7:30 7:51 8:22 8:27 9:08 \$\sqrt{10:08} 10:22 10:32	Reg NB 52 N020705 2 Express 7:05 7:16 7:28 7:30	Peak O/T NB 70 N200733 20 Central Valley Limited 7:33 7:47 8:37 9:17 10:12 10:26 10:37	Peak O/T NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:45 7:54 8:26 8:49 10:06 10:23 10:36	Reg NB 53 N140720 14 L.A Merced Local 7:20 7:31 7:43 7:45 7:55 8:04 8:24 8:30 9:05	Reg NB 54 N010735 1 Bay Area Limited 7:35 7:46 7:58 8:00 10:09 10:24 10:39	Reg NB 48 N150937 15 S.F Merced Local 9:37 10:13 10:30 10:44 10:55	NB 72 N160803 16 Central Valley Limited 8:03 9:00 9:40 10:24 10:41 10:55 11:21	Reg NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:27 8:29 8:51 10:34 10:51 11:05

CALIFORNIA HIGH-SPEED RAIL

CALIFORNIA HIGH-S																																		
PHASE 1 TIME	TABLE																																	
BASE SERVICE PLA	N Turns from	\rightarrow																																
APPENDIX A1		Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Peak O/T	Reg	Reg
ALL ENDIX AT	Direction		SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
	Train		41	M4	61	24	62	43	63	42	64	M6	45	61	65	66	47	46	68	44	49	45	69	50	52	51	71	48	54	49	72	73	74	55
	Train No.			S160838	S150847	S141002	S010900		S160908	S040914	S170933	S160938	S150947	S141102	S011000	S171003	S161008	S041014	S171033	S161038	S151047	S141202	S011100	S171103	S161108	S041114	S171133	S161138	S151147	S141302	S011200	S171203	S161208	S041214
	Pattern	→ 4	17	16	15	14	1	17	16	4	17	16	15	14	1	17	16	4	17	16	15	14	1	17	16	4	17	16	15	14	1	17	16	4
Southbound		•	S.Fern'do		S.F	L.A	Bay	S.Fern'do		·	S.Fern'do	Central	S.F	L.A	Bay	S.Fern'do		·	S.Fern'do		S.F	L.A	Bay	S.Fern'do	Central	·	S.Fern'do		S.F	L.A	Bay	S.Fern'do	Central	·
	Service Type	→ All-Stop	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop
		Local	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited	Local	Local	Limited	Limited	Limited	Local
Mile Station																																		
0.0 SFT S.FTra	ransbay D	ep 8:14	8:33	8:38	8:47		9:00	9:03	9:08	9:14	9:33	9:38	9:47		10:00	10:03	10:08	10:14	10:33	10:38	10:47		11:00	11:03	11:08	11:14	11:33	11:38	11:47		12:00	12:03	12:08	12:14
14.7 SFO Millbrae	e D	ер 8:30		8:54	9:03				9:24	9:30		9:54	10:03				10:24	10:30		10:54	11:03				11:24	11:30		11:54	12:03				12:24	12:30
26.4 RWC Redwoo	od City D	ep 8:40	8:53	9:04	9:13		9:20	9:23	9:34	9:40	9:53	10:04	10:13		10:20	10:23	10:34	10:40	10:53	11:04	11:13		11:20	11:23	11:34	11:40	11:53	12:04	12:13		12:20	12:23	12:34	12:40
48.0 SJC San Jos	se D	ер 8:56	9:09	9:20	9:29		9:36	9:39	9:50	9:56	10:09	10:20	10:29		10:36	10:39	10:50	10:56	11:09	11:20	11:29		11:36	11:39	11:50	11:56	12:09	12:20	12:29		12:36	12:39	12:50	12:56
77.7 GLY Gilroy	A	rr																																
		ep 9:13	9:26	9:37	9:46		9:53	9:56	10:07	10:13	10:26	10:37	10:46		10:53	10:56	11:07	11:13	11:26	11:37	11:46		11:53	11:56	12:07	12:13	12:26	12:37	12:46		12:53	12:56	13:07	13:13
187.5 MCD Merced	d A	rr 🔟	1	1	10:21			1	Т	1		1	11:21			1	1	1	1	1	12:21				T	Т	1	Т	13:21		1		1	1
	D	ep ▼		V		10:02			V	V				11:02			V			V		12:02			<u> </u>	V		V		13:02			<u> </u>	*
191.5 FNO Fresno) A	rr																																
		ep 9:56		10:20		10:25			10:50	10:56		11:20		11:25			11:50	11:56		12:20		12:25			12:50	12:56		13:20		13:25			13:50	13:56
302.8 BFD Bakerst		rr 10:35				11:04				11:35				12:04				12:35				13:04				13:35				14:04				14:35
		ep 10:39		11:00		11:10			11:30	11:39		12:00		12:10			12:30	12:39		13:00		13:10			13:30	13:39		14:00		14:10			14:30	14:39
387.4 PMD Palmda		rr	•	1				•			•					•			•					▼			•	1				V		
		ep 11:13				11:44		11:39			12:09			12:44		12:39		13:13	13:09			13:44		13:39		14:13	14:09			14:44		14:39		15:13
425.7 SYL Sylmar		ep 11:35	11:31			12:06		12:01		12:35	12:31			13:06		13:01		13:35	13:31			14:06		14:01		14:35	14:31			15:06		15:01		15:35
436.3 BUR Burban				\downarrow			\downarrow		\downarrow			\downarrow			\downarrow		\downarrow						\downarrow		\downarrow			Ų .			\downarrow		\downarrow	
		ep 11:44				12:15		12:10		12:44	12:40	<u>'</u>		13:15		13:10		13:44	13:40			14:15	*	14:10	· · · · · ·	14:44	14:40			15:15	·	15:10		15:44
446.6 LAU L.A. Un		rr 11:52	11:49	11:57		12:23			12:27		12:49	12:57		13:23	13:00	13:19	13:27	13:52	13:49	13:57		14:23	14:00	14:19	14:27	14:52	14:49	14:57		15:23	15:00	15:19	15:27	15:52
404 0 NOT N		ep 11:54				12:25	12:02			12:54				13:25	13:02			13:54				14:25	14:02			14:54				15:25	15:02			15:54
461.8 NSF Norwall		rr 12:06				12:37	12:14			13:06				13:37	13:14			14:06				14:37	14:14			15:06				15:37	15:14			16:06
476.9 ANA Anaheii	im A	rr 12:17				12:48	12:25			13:17				13:48	13:25			14:17				14:48	14:25			15:17				15:48	15:25			16:17
	Available	→ 12:57	12:29	12:37	11:01	13:28	13:05	12:59	13:07	13:57	13:29	13:37	12:01	14:28	14:05	13:59	14:07	14:57	14:29	14:37	13:01	15:28	15:05	14:59	15:07	15:57	15:29	15:37	14:01	16:28	16:05	15:59	16:07	16:57
	Turns for	\rightarrow																																
	Turns from	\rightarrow																																
																															ь .	_		
		Reg	Reg	Reg	Peak O/T	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Peak O/T	U	Reg	Reg	Reg	Reg	Reg	Reg	Reg	-	Reg	Reg	Reg	Reg	Reg	Reg	Reg		Reg	Reg	Reg	Reg
	Direction		NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
	Train		74	75	56	57	53	2	3	M1	6	/	1	5	56	10	4	M2	14	15	9	13	1	18	19	M5	22	23	17	21	9	M3	26	8
	Train No.		N160833	N170840	N140820	N010835	N151037	N160903	N170910	N040852	N160933	N170940	N140920	N010935	N151137	N161003	N171010	N040952	N161033	N171040	N141020	N011035	N151237	N161103	N171110	N041052	N161133	N171140	N141120	N011135	N151337	N161203	N171210	N041152
No antible account	Pattern	→ 4	16 Central	17 S.Fern'do	14 L.A	Pay	15 S.F	16 Central	17 S.Fern'do	4	16 Central	17 S.Fern'do	14 L.A	Pov	15 S.F	16 Central	17 S.Fern'do	4	16 Central	17 S.Fern'do	14 L.A	Pay	15 S.F	16 Central	17 S.Fern'do	4	16 Central	17 S.Fern'do	14 L.A	Pov	15 S.F	16 Central	17 S Forpido	4
<u>Northbound</u>	0 i T	> All Cton				Bay				All Cton				Bay				All Cton				Bay				All Cton				Bay				All Cton
	Service Type		Valley Limited	Valley	Merced	Area Limited	Merced	Valley Limited	Valley	All-Stop	Valley Limited	Valley	Merced	Area Limited	Merced	Valley	Valley	All-Stop	Valley	Valley	Merced	Area Limited	Merced	Valley	Valley	All-Stop	Valley Limited	Valley	Merced	Area Limited	Merced	Valley	-	All-Stop
Mile Station		Local	Lillilleu	Limited	Local	Limiteu	Local	Limiteu	Limited	Local	Liiiilleu	Limited	Local	Liiiiileu	Local	Limited	Limited	Local	Limited	Limited	Local	Limiteu	Local	Limited	Limited	Local	Lillilleu	Limited	Local	Littilleu	Local	Limited	Limited	Local
0.0 ANA Anahei	im D	ep 7:52			8:20	8:35				8:52			9:20	9:35				9:52			10.20	10:35				10:52			11:20	11.35				11:52
15.0 NSF Norwall		ep 8:03			8:31	8:46				9:03			9:31	9:46				10:03			10:20	10:46				11:03			11:31					12:03
30.3 LAU L.A. Un		rr 8:15			8:43	8:58				9:15			9:43	9:58				10:03			10:43	10:58				11:15				11:58				12:15
00.0 L/10 L./1. OII		ep 8:17	8-33	8:40	8:45	9:00		9:03	9:10	9:17	9:33	9:40	9:45	10:00		10.03	10:10		10.33	10:40		11:00		11.03	11:10		11.33	11-40	11:45	12:00		12-03	12:10	
40.6 BUR Burban		ep 8:27	0.00	8:57	8:55	3.00		3.00	9:27	9:27	J.00	9:57	9:55	10.00		10.00	10:17	10:17	10.00	10:57		11.00		11.00		11:27	11.55	11:57		12.00		12.00	12:27	
51.1 SYL Sylmar		ep 8:36		8:59	9:04				9:29	9:36			10:04					10:36			11:04					11:36		11:59	12:04				12:29	
89.4 PMD Palmda		rr 8:56		0.00	9:24				0.20	9:56		0.00	10:24				10.20	10:56		10.00	11:24				11.20	11:56		11.00	12:24				12.20	12:56
33 <u></u>		ep 9:01		9:21	9:28				9:51	10:01		10.21	10:24				10:51	11:01		11.21	11:30				11:51	12:01		12:21	12:30				12:51	
174.1 BFD Bakerst		rr		J.E.1	J. <u>L</u> U			*	1	. 5.0 1	*					+	1		*					*		01	*		00			*		
2 24.0101		ep 9:33	9:30		10:03			10:00		10:33	10:30		11:03			11:00		11:33	11:30		12:05			12:00		12:33	12:30		13:05			13:00		13:33
285.4 FNO Fresno		rr	3.00		10:42			3.00					11:42																					
		ep 10:14	10:10		10:46			10:40		11:14	11:10		11:46			11:40		12:14	12:10		12:46			12:40		13:14	13:10		13:46			13:40		14:14
354.4 MCD Merced		rr ı			11:08			1			1		12:08			1			1		13:07			1			1		14:07			1		
		 ep	+				10:37	+		\ \	+				11:37	+		\	♦				12:37	\psi		+	\			. ↓	13:37	+		+
399.2 GLY Gilroy	A			+					+			+		-			+			+					+			*		T			V	
- · - ,		ep 10:57	10:54	11:04		11:09	11:13	11:24	11:34	11:57	11:54	12:04		12:09	12:13	12:24	12:34	12:57	12:54	13:04		13:09	13:13	13:24	13:34	13:57	13:54	14:04		14:09	14:13	14:24	14:34	14:57
428.8 SJC San Jos		p 11:14						11:41									12:51							13:41								14:41		
				11:35								12:35					13:05							13:55										15:28

12:39 12:44 **12:55** 13:05 13:28 13:25 13:35

13:00 13:11 **13:21** 13:26 13:54 13:51 13:56

Available → 12:24 12:21 12:26 11:48 12:30 12:41 12:51 12:56 13:24 13:21 13:26 13:41 13:51 13:56 14:24 14:21 14:26 13:47 14:30 14:41 14:51 14:56 15:24 15:21 15:26 14:47 15:30 15:41 15:51 15:56 16:24

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-- 12:55 13:05 -- 13:38 13:35

428.8 SJC San Jose 450.5 RWC Redwood City

462.2 SFO Millbrae

476.9 SFT S.F.-Transbay

Arr 11:28 11:25 11:35

Arr 11:38 11:35 --

Turns for →

Arr 11:54 11:51 11:56

<u>11:39</u> 11:44 11:55 12:05 12:28 12:25 12:35

-- 11:55 12:05 -- 12:38 12:35 --

12:00 12:11 **12:21** 12:26 12:54 12:51 12:56

14:39 14:44 14:55 15:05 15:28

15:00 15:11 15:21 15:26 15:54

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13:39 13:44 13:55 14:05 14:28 14:25 14:35

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14:00 14:11 **14:21** 14:26 14:54 14:51 14:56

CALIFORNIA HIGH-SPEED RAII

	IIGH-SPEED RAII	-																																	
	FIMETABLE																																		
BASE SERVIC	E PLAN Turns fr	om →																																	
APPENDIX A1			Reg	Reg	Reg	Reg	Reg	Peak O/T	Reg	Reg	Reg	Reg	Reg	Reg	Peak O/T	Peak O/T	Reg	Reg	Reg	Reg	Reg	Reg	Peak O/T	Peak O/T	Peak O/T	Peak O/T	Reg	Peak O/T	Peak O/T	Reg	Reg	Peak O/T	Peak O/T	Peak O/T	Peak O/T
	Direc		SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
			75	53	57	54	2	3	6	M1	7	56	5	10	4	57	14	M2	15	1	13	18	19	5	22	M5	67	23	9	21	M3	26	13	41	8
			5171233	S161238	S151247	S141402	S011300	S171303	S161308	S041314	S171333	S161338	S151347	S011400	S171403	S141519	S161408	S041414	S171433	S161438	S151447	S011500	S191504	S141619	S101508	S041514	S021529	S211533	S201537	S151547	S011600	S191604	S141719	S181608	S041614
Southbound	Pall		17 Fern'do	16 Central	15 S.F	14 L.A	Bay	17 S.Fern'do	16 Central	4	17 S.Fern'do	16 Central	15 S.F	Bay	17 S.Fern'do	14 L.A	16 Central	4	17 S.Fern'do	16 Central	15 S.F	Bay	19 S.Fern'do	14 L.A	10 Central	4	2	21 S.Fern'do	20 Central	15 S.F	Bay	19 S.Fern'do	14 L.A	18 Central	4
<u>Journal and </u>	Service T			Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley	Merced	Area	Valley	Merced	Valley	All-Stop	Valley	Valley	Merced	Area	Valley	Merced	Valley	All-Stop		Valley	Valley	Merced	Area	Valley	Merced	Valley	All-Stop
			imited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited	Local	Limited	Limited	Local	Limited	Local	Limited	Limited	Local	Limited	Limited	Local	Limited	Local	Express	Limited	Limited	Local	Limited	Limited	Local	Limited	Local
Mile Station																																			
	S.FTransbay	Dep 1			12:47		13:00		13:08	13:14	13:33		13:47	14:00	14:03		14:08		14:33	14:38		15:00	15:04		15:08	15:14		15:33		15:47	16:00	16:04		16:08	
14.7 SFO N	Millbrae Redwood Citv		12.52	12:54 13:04	13:03		13:20	13:23	13:24	13:30 13:40	13:53	13:54 14:04	14:03	14:20	14:23		14:24	14:30 14:40	14.52	14:54 15:04	15:03	15:20	 15:24		15:24	15:30 15:40			15:53	16:03 16:13	16:20	16:24			16:30 16:40
48.0 SJC				13:20	13:29		13:36		13:50		14:09			14:36	14:39			14:56		15:20		15:36	15:40			15:56	16:00	16:05			16:36	16:40		16:50	
77.7 GLY (Arr	10.00	10.20	10.20		10.00	10.00	10.00	10.00	11.00	11.20	11.20	11.00	11.00		11.00	11.00	10.00	10.20	10.20	10.00	10.10		10.00	16:11	10.00	10.00	10.10	10.20	10.00	10.10		10.00	17:11
	,		13:26	13:37	13:46		13:53	13:56	14:07	14:13	14:26	14:37	14:46	14:53	14:56		15:07	15:13	15:26	15:37	15:46	15:53	15:57		16:07	16:16		16:21		16:46	16:53	16:57		17:07	
187.5 MCD N	Merced	Arr	1	Τ	14:21				Τ	1	1	Τ	15:21	1			1	1	1	Τ	16:21	1	1		Т	Τ				17:21	1			Ţ	1
		Dep				14:02			٧	V		V				15:19	•	•		V				16:19	V	V							17:19		
191.5 FNO F	resno	Arr		14.20		14.05			14.50	14.56		15.00				15.40	15.50	15.50		16:20				16.40	16:48	17.02			17.11				17.10	17:48	10.02
302.8 BFD E	Rakarefiald	Dep Arr		14:20		14:25 15:04			14:50	14:56 15:35		15:20				15:42 16:21	15:50	15:56 16:35		16:20				16:42 17:21	16:52	17:03		+	17:14				17:42 18:21	17:52	18:03
302.0 Di D	Dakersheid	Dep		15:00		15:10			15:30	15:39		16:00				16:29	16:30	16:39		17:00				17:29				17:38	17:54				18:29		
387.4 PMD F	Palmdale	Arr	+	1				+	1		+	1			*		1		•	1			+									+			
		Dep 1	15:09			15:44		15:39		16:13	16:09				16:39	17:02		17:13	17:09				17:40	18:02	17:59	18:15		18:11				18:40	19:02	18:59	19:15
425.7 SYL S	•	Dep 1	15:31			16:06		16:01		16:35	16:31				17:01	17:24		17:35	17:31				18:02	18:24		18:36		18:33	18:44			19:02	19:24		19:36
436.3 BUR E	Burbank	Arr	15.40	\downarrow		40:45	\downarrow	40:40	\downarrow	40:44	40:40	\downarrow		+	47:40	47.00	\downarrow	47.44	47:40	\downarrow		↓ ↓		40.00	40.05	40.45	\downarrow	40.40			\downarrow		40.00	40.05	40:45
44661AII I	A. Union Sta.	Dep 1		15:57		16:15 16:23	16:00	16:10	16:27	16:44 16:52	16:40	16:57		17:00	17:10 17:19	17:33 17:42	17:27	17:44 17:52	17:40 17:49	17:57		18:00	 18:15	18:33 18:42		18:45 18:54	18:18	18:42 18:51	 18·57		19:00	 19:15	19:33 19:42		19:45 19:54
440.0 LAU L	L.A. Union Sta.	Dep	13.43	13.37		16:25	16:02	10.19	10.27	16:54	10.45	10.57		17:00	17.19	17:42	17.21	17:54	17.43	17.57		18:02	10.13	18:44		18:56	18:20	10.51	10.57		19:02	19.13	19:44	13.34	19:56
461.8 NSF N	Vorwalk	Arr				16:37	16:14			17:06				17:14		17:55		18:06				18:14		18:55	18:49		18:32				19:14		19:55		20:08
476.9 ANA	Anaheim	Arr				16:48	16:25			17:17				17:25		18:07		18:17				18:25		19:07	18:59	19:19	18:43				19:25		20:07		20:19
	Availa	ble →	16:29	16:37	15:01	17:28	17:05	16:59	17:07	17:57	17:29	17:37	16:01	18:05	17:59	18:47	18:07	18:57	18:29	18:37	17:01	19:05	18:55	19:47	19:39	19:59	19:23	19:31	19:37	18:01	20:05	19:55	20:47	20:14	20:59
	Turns																																		
		-																																	
	Turns fr	om →																																	
			Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Peak O/T	Reg	Reg	Peak O/T	Peak O/T	Peak O/T	Reg	Peak O/T	Peak O/T	Reg	Reg	Reg	Peak O/T	Peak O/T	Peak O/T
	Direc		NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
		ainset	41	M4	25	16	17	43	63	27	64	M6	62	24	25	66	47	42	68	44	65	61	62	50	52	46	11	71	48	69	45	65	73	74	51
	Train	No. → N		N171240	N141220	N011235	N151437	N161303	N171310	N041252	N161333	N171340	N141320	N011335	N151537	N161403	N171410	N041352	N161433	N171440	N141419	N011435	N151637	N191503	N181507	N041446	N021505	N201533	N211535	N141519	N011535	N151737	N191603	N181607	N041546
No other cond	Patt	ern →	16 Central	17 S.Fern'do	14 L.A	1 Pay	15 S.F	16 Central	17 S.Fern'do	4	16 Central	17 S.Fern'do	14 L.A	1 Pay	15 S.F	16 Central	17 S.Fern'do	4	16 Central	17 S.Fern'do	14 L.A	1 Pay	15 S.F	19 S Forn'do	18 Central	4	2	20 Central	21 S.Fern'do	14 L.A	1 Pay	15 S.F	19 S.Fern'do	18 Central	4
Northbound	Service T		Valley	Valley	Merced	Bay Area	Merced	Valley	Valley	All-Stop	Valley	Valley	Merced	Bay Area	Merced	Valley	Valley	All-Stop	Valley	Valley	Merced	Bay Area	Merced	S.Fern'do Valley	Valley	All-Stop		Valley	Valley	Merced	Bay Area	Merced	Valley	Valley	All-Stop
	Service 1		imited	Limited	Local	Limited	Local	Limited	,	Local	Limited	Limited	Local	Limited	Local	Limited	Limited	Local	Limited	Limited	Local	Limited	Local	Limited	Limited	Local	Express	Limited	Limited	Local	Limited	Local	Limited	Limited	Local
Mile Station	<u>1</u>																																		
0.0 ANA A		Dep			12:20	12:35				12:52			13:20	13:35				13:52			14:19	14:35				14:46	15:05			15:19	15:35				15:46
15.0 NSF N		Dep				12:46				13:03				13:46				14:03				14:46					15:16				15:46				15:57
30.3 LAU L	A. Union Sta.	Arr		40.40	12:43	12:58		40.00	40.40	13:15	40.00	40.40	13:43	13:58		44.00	44.40	14:15	44.00	44.40	14:42	14:58		45.00	45.07	15:09	15:28	45.00	45.05	15:42	15:58		40.00	40.07	16:09
40.6 BUR E	Rurhank	Dep 1	12:33	12:40	12:45	13:00		13:03	13:10	13:17	13:33		13:45 13:55	14:00		14:03		14:17 14:27	14:33		14:44 14:54	15:00		15:03	15:07 15:17	15:11	15:30	15:33		1 5:44 15:54	16:00		16:03	16:07 16:17	
51.1 SYL S		Dep			13:04					13:36			14:04					14:36			15:03			15:17		15:30			15:54				16:17		16:30
89.4 PMD F		Arr			13:24				.5.25	13:56		. 0.00	14:24					14:56			15:23			. 5. 17					. 0.0 1	16:23					. 5.55
		Dep		13:21					13:51	14:01		14:21	14:30				14:51	15:01		15:21	15:27			15:39	15:42	15:51			16:26				16:39	16:42	16:51
174.1 BFD E	Bakersfield	Arr														<u> </u>										16:22									17:22
005 4 5110		Dep 1	13:30		14:05			14:00		14:33	14:30		15:05			15:00		15:33	15:30		16:02					16:27		16:37	16:49	17:04					17:27
285.4 FNO F	-resno	Arr Dep 1	14:10		14:46			14:40		15:14	15:10		15:46			15:40		16.14	16:10		16:41 16:45				16:40	17:08		17:17		17:45				17:49	10.00
354.4 MCD N	Merced	Arr	1-1.10		15:07			14.40			13.10		16:07			13.40			10.10		17:07				10.49	17.00		17.17		18:06				17.49	10.00
		Dep	\psi				14:37	+		\	\ \		. 5.01		15:37	+		\	\ \				16:37			+						17:37			+
399.2 GLY (Gilroy	Arr		+					+			+					+			+				+	17:30				*				•	18:30	
		Dan 1	14.54	15:04		15:00	15.10	15.24	15:3/	15.57	15.51	16:04		16.00	16.12	16.24	16.34	16.57	16.54	17:04		17.00	17.13	17.22	17:36	17.51		+	18:06		18.00	18.13	18.23	18.36	18.51

16:09 16:13 16:24 16:34 16:57 16:54 17:04

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16:55 17:05

17:00 17:11 17:21

17:09 17:13 17:23 17:36 17:51

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17:24 17:30 17:40 17:53 18:08 **17:50** 18:12 18:23

18:00 18:11 18:15 18:27 18:48 18:19 18:51

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428.8 SJC San Jose

462.2 SFO Millbrae

450.5 RWC Redwood City

476.9 SFT S.F.-Transbay

Dep 14:54 15:04

Dep 15:11 15:21

15:35

15:56

Arr 15:25

Arr 15:35

Arr 15:51

Turns for →

15:09 15:13 15:24 15:34 15:57 15:54 16:04

<u>15:24</u> 15:30 <u>15:41</u> 15:51 16:14 16:11 16:21

15:39 15:44 15:55 16:05 16:28 16:25 16:35

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16:26 16:54 16:51

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16:00 16:11 16:21

18:09 18:13 18:23 18:36 18:51

18:24 18:30 **18:40 18:53** 19:08

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19:15 19:27 19:48

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18:26 18:36

CALIFORNIA HIGH-SPEED RAIL

399.2 GLY Gilroy

428.8 SJC San Jose

462.2 SFO Millbrae

450.5 RWC Redwood City

476.9 SFT S.F.-Transbay

CALIFORNIA HIGH-																																	
PHASE 1 TIME	TABLE																																
BASE SERVICE PLA	N Turns from -	—																															
APPENDIX A1		Req	Peak O/T	Poak O/T	Reg	Reg	Reg	Peak O/T	Peak O/T	Poak O/T	Reg	Peak O/T	Peak O/T	Reg	Reg	Req	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Night	Reg	Reg	Reg	Night	Reg	Reg	Night
ALL ENDIX AT	Direction -		SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
	Trainse		M4	17	16	21	43	63	64	27	24	M6	25	66	16	47	42	68	44	61	62	50	66	11	52	46	71	73	74	51	3	20	55
	Train No	_		S201637	S151647	S141802	S011700		S181708	S041714	S021729	S211733	S201737	S151747	S141902	S011800	S171803	S161808	S041814	S171833	S161838	S151847	S142002	S011900	S171910	S041914	S161935	S151947	S012000	S042014	S152047	S012100	S042114
	Pattern -		21	20	15	14	1	19	18	4	2	21	20	15	14	1	17	16	4	17	16	15	14	1	17	4	16	15	1	4	15	1	4
Southbound		_	S.Fern'do		S.F	L.A	Bay	S.Fern'do		·		S.Fern'do	Central	S.F	L.A	Bay	S.Fern'do	Central		S.Fern'do	Central	S.F	L.A	Bay	S.Fern'do		Central	S.F	Bay		S.F	Bay	
	Service Type -	>	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop		Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley	Merced	Merced	Area	Valley	All-Stop	Valley	Merced	Area	All-Stop	Merced	Area	All-Stop
		Express	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Express	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited	Local	Local	Limited	Limited	Local	Limited	Local	Limited	Local	Local	Limited	Local
Mile Station																																	
0.0 SFT S.FT	ransbay Dep	16:29	16:33	16:37	16:47		17:00	17:04	17:08	17:14	17:29	17:33	17:37	17:47		18:00	18:03	18:08	18:14	18:33	18:38	18:47		19:00	19:10	19:14	19:35	19:47	20:00	20:14	20:47	21:00	21:14
14.7 SFO Millbra				16:53	17:03				17:24	17:30			17:53	18:03				18:24	18:30		18:54	19:03				19:30	19:51	20:03		20:30	21:03		21:30
26.4 RWC Redwo			-	17:03				17:24	17:34				18:03	18:13			18:23		18:40	18:53	19:04	19:13			19:30			20:13		20:40		21:20	
48.0 SJC San Jo		17:00	17:05	17:19	17:29		17:36	17:40	17:50		18:00	18:05	18:19	18:29		18:36	18:39	18:50	18:56	19:09	19:20	19:29		19:36	19:46	19:56	20:17	20:29	20:36	20:56	21:29	21:36	21:56
77.7 GLY Gilroy	Arr		47.04		47.40		47.50	4	40.07	18:11		40.04		40.40		40.50	40.50	40.07	10.10	40.00	40.07	40.40		40.50	00.00	00.40	00.04	00.40	00.50	04.40	04.40	04.50	00.40
407.5 MCD Marea	Dep		17:21		17:46		17:53	17:57	18:07	18:16		18:21		18:46		18:53	18:56	19:07	19:13	19:26	19:37	19:46		19:53	20:03	20:13	20:34		20:53	21:13		21:53	22:13
187.5 MCD Merce					18:21	18:02			\downarrow	. ↓				19:21	19:02			\downarrow	+		\downarrow	20:21	20:02			\	\downarrow	21:21		\	22:21		\
191.5 FNO Fresno	Dep O Arr			+		10:02			18:48				+		19:02						<u> </u>		20:02				· · · · · · · · · · · · · · · · · · ·			<u> </u>			
191.5 INO TIESIK	Der Der			18:14		18:25				19:03			19:14		19:25			19:50	19:56		20:20		20:25			20:56	21.17			21:56			22:56
302.8 BFD Bakers	•		+	10.14		19:04			10.02	10.00		+	10.17		20:04			10.00	20:35		20.20		21:04			20.00				21.00			
002.0 2. 2 240	Der		18:38	18:54		19:10						19:38	19:54		20:10			20:30	20:39		21:00		21:10			21:36	21:57			22:36			23:36
387.4 PMD Palmd								+									*	1		*	1				+								
	Dep		19:11			19:44		19:40	19:59	20:15		20:11			20:44		20:39		21:13	21:09			21:44		21:46	22:09				23:09			0:09
425.7 SYL Sylma	r Dep		19:33	19:44		20:06		20:02		20:36		20:33	20:44		21:06		21:01		21:35	21:31			22:06		22:08	22:31				23:31			0:31
436.3 BUR Burba	nk Arr																																
	Dep	V	19:42			20:15	•		20:25	20:45		20:42			21:15	V	21:10	V	21:44	21:40	V		22:15	V	22:17	22:40	V		<u> </u>	23:40		▼	0:40
446.6 LAU L.A. U	nion Sta. Arr	19:18	19:51	19:57		20:23	20:00	20:15	20:34	20:54	20:18	20:51	20:57		21:23	21:00	21:19	21:27	21:52	21:49	21:57		22:23	22:00	22:26	22:48	22:54		23:00	23:48		0:00	0:48
404 0 NOE Name		19:20				20:25	20:02			20:56	20:20				21:25	21:02			21:54				22:25	22:02		22:50			23:02	23:50		0:02	0:50
461.8 NSF Norwa	ılk Arr	19:32				20:37	20:14			21:08	20:32				21:37	21:02 21:14			21:54 22:06				22:37	22:14		23:02			23:14	0:02		0:14	1:02
461.8 NSF Norwa 476.9 ANA Anahe	ılk Arr						20:14				20:32				21:37	21:02			21:54														
	ilk Arr	19:32	20:31	20:37	19:01	20:37	20:14	20:55	21:14	21:08 21:19	20:32	21:31	21:37	20:01	21:37	21:02 21:14	21:59	22:07	21:54 22:06	22:29	22:37	21:01	22:37	22:14	23:06	23:02	23:34	22:01	23:14	0:02	23:01	0:14	1:02
	ilk Arr	19:32 19:43 20:23	20:31	20:37	19:01	20:37 20:48	20:14 20:25	20:55	21:14	21:08 21:19	20:32 20:43	21:31	21:37	20:01	21:37 21:48	21:02 21:14 21:25			21:54 22:06 22:17		22:37	21:01	22:37 22:48	22:14 22:25	23:06	23:02 23:13	23:34	22:01	23:14 23:25	0:02 0:13	23:01	0:14 0:25	1:02 1:13
	ilk Arr Arr Arr Available –	19:32 19:43 20:23	20:31	20:37	19:01	20:37 20:48	20:14 20:25	20:55	21:14	21:08 21:19	20:32 20:43	21:31	21:37	20:01	21:37 21:48	21:02 21:14 21:25			21:54 22:06 22:17		22:37	21:01	22:37 22:48	22:14 22:25	23:06	23:02 23:13	23:34	22:01	23:14 23:25	0:02 0:13	23:01	0:14 0:25	1:02 1:13
	ilk Arr Arr Arr Available –	19:32 19:43 20:23	20:31	20:37	19:01	20:37 20:48	20:14 20:25	20:55	21:14	21:08 21:19	20:32 20:43	21:31	21:37	20:01	21:37 21:48	21:02 21:14 21:25			21:54 22:06 22:17		22:37	21:01	22:37 22:48	22:14 22:25	23:06	23:02 23:13	23:34	22:01	23:14 23:25	0:02 0:13	23:01	0:14 0:25	1:02 1:13
	lik Arr im Arr Available – Turns for –	19:32 19:43 20:23				20:37 20:48 21:28	20:14 20:25 21:05			21:08 21:19 21:59	20:32 20:43 21:23				21:37 21:48 22:28	21:02 21:14 21:25 22:05	21:59	22:07	21:54 22:06 22:17 22:57	22:29			22:37 22:48 23:28	22:14 22:25 23:05		23:02 23:13 23:53			23:14 23:25 0:05	0:02 0:13 0:53		0:14 0:25 1:05	1:02 1:13 1:53
	Available -	19:32 19:43 20:23	Peak O/T	Peak O/T	Reg	20:37 20:48 21:28	20:14 20:25 21:05	Peak O/T	Peak O/T	21:08 21:19 21:59	20:32 20:43 21:23	Peak O/T	Peak O/T	Reg	21:37 21:48 22:28	21:02 21:14 21:25 22:05	21:59 Reg	22:07 Reg	21:54 22:06 22:17 22:57	22:29 Reg	Reg	Reg	22:37 22:48 23:28	22:14 22:25 23:05	Reg	23:02 23:13 23:53 Night	Reg	Reg	23:14 23:25 0:05	0:02 0:13 0:53	Reg	0:14 0:25 1:05	1:02 1:13 1:53
	Available -: Turns from -: Direction -:	19:32 19:43 20:23 Reg NB	Peak O/T NB	Peak O/T NB	Reg NB	20:37 20:48 21:28 Reg NB	20:14 20:25 21:05 Reg NB	Peak O/T NB	Peak O/T NB	21:08 21:19 21:59 Peak O/T NB	20:32 20:43 21:23 Reg NB		Peak O/T	Reg NB	21:37 21:48 22:28 Reg NB	21:02 21:14 21:25 22:05	21:59	22:07 Reg NB	21:54 22:06 22:17 22:57	22:29 Reg NB		Reg NB	22:37 22:48 23:28 Reg NB	22:14 22:25 23:05	Reg NB	23:02 23:13 23:53 Night NB	Reg NB	Reg NB	23:14 23:25 0:05	0:02 0:13 0:53	Reg NB	0:14 0:25 1:05	1:02 1:13 1:53 Night NB
	Available -	19:32 19:43 20:23 Reg NB et 12	Peak O/T	Peak O/T	Reg	20:37 20:48 21:28	20:14 20:25 21:05	Peak O/T	Peak O/T	21:08 21:19 21:59	20:32 20:43 21:23	Peak O/T	Peak O/T	Reg	21:37 21:48 22:28	21:02 21:14 21:25 22:05	21:59 Reg	22:07 Reg	21:54 22:06 22:17 22:57	22:29 Reg	Reg	Reg	22:37 22:48 23:28	22:14 22:25 23:05	Reg	23:02 23:13 23:53 Night	Reg	Reg	23:14 23:25 0:05	0:02 0:13 0:53	Reg	0:14 0:25 1:05	1:02 1:13 1:53
	Available - Turns from - Direction - Trainse	19:32 19:43 20:23 Reg NB et 12 N021605	Peak O/T NB 75	Peak O/T NB 53	Reg NB 72	20:37 20:48 21:28 Reg NB 49	20:14 20:25 21:05 Reg NB 69	Peak O/T NB 3	Peak O/T NB 20	21:08 21:19 21:59 Peak O/T NB 55	20:32 20:43 21:23 Reg NB 6	Peak O/T NB 7	Peak O/T NB 56	Reg NB 2	21:37 21:48 22:28 Reg NB 54	21:02 21:14 21:25 22:05 Reg NB 72	21:59 Reg NB 4	22:07 Reg NB 14	21:54 22:06 22:17 22:57 Reg NB M1	22:29 Reg NB 15	Reg NB 1	Reg NB 10	22:37 22:48 23:28 Reg NB 57	22:14 22:25 23:05 Reg NB 2	Reg NB 19	23:02 23:13 23:53 Night NB M2	Reg NB 23	Reg NB 18	23:14 23:25 0:05	0:02 0:13 0:53 Night NB 5	Reg NB M3	0:14 0:25 1:05	1:02 1:13 1:53 Night NB 13
	Available -: Available -: Turns from -: Direction -: Trainse Train No:	19:32 19:43 20:23 Reg NB et 12 N021605	Peak O/T NB 75 N201633	Peak O/T NB 53 N211635	Reg NB 72 N141619	20:37 20:48 21:28 Reg NB 49	20:14 20:25 21:05 Reg NB 69 N151837	Peak O/T NB 3 N191703	Peak O/T NB 20 N101642 10	21:08 21:19 21:59 Peak O/T NB 55 N041646	20:32 20:43 21:23 Reg NB 6 N021705	Peak O/T	Peak O/T NB 56 N211735	Reg NB 2 N141720	21:37 21:48 22:28 Reg NB 54	21:02 21:14 21:25 22:05 Reg NB 72 N151937	21:59 Reg NB 4 N161803 16	22:07 Reg NB 14 N171810	21:54 22:06 22:17 22:57 Reg NB M1 N041752	22:29 Reg NB 15 N161833 16	Reg NB 1 N171840	Reg NB 10 N141820	22:37 22:48 23:28 Reg NB 57	22:14 22:25 23:05 Reg NB 2 N152037	Reg NB 19 N161913	23:02 23:13 23:53 Night NB M2 N041852	Reg NB 23 N171940	Reg NB 18 N141920	23:14 23:25 0:05	0:02 0:13 0:53 Night NB 5 N041952	Reg NB M3 N142020	0:14 0:25 1:05 Reg NB 70 N012035	1:02 1:13 1:53 Night NB 13 N042052
476.9 ANA Anahe	Available -: Available -: Turns from -: Direction -: Trainse Train No:	19:32 19:43 20:23 Reg NB 12 N021605 2	Peak O/T NB 75 N201633	Peak O/T NB 53 N211635 21	Reg NB 72 N141619	20:37 20:48 21:28 Reg NB 49 N011635	20:14 20:25 21:05 Reg NB 69 N151837 15	Peak O/T NB 3 N191703	Peak O/T NB 20 N101642 10	21:08 21:19 21:59 Peak O/T NB 55 N041646	20:32 20:43 21:23 Reg NB 6 N021705	Peak O/T	Peak O/T NB 56 N211735 21	Reg NB 2 N141720	21:37 21:48 22:28 Reg NB 54 N011735	21:02 21:14 21:25 22:05 Reg NB 72 N151937	21:59 Reg NB 4 N161803 16	22:07 Reg NB 14 N171810 17	21:54 22:06 22:17 22:57 Reg NB M1 N041752	22:29 Reg NB 15 N161833 16	Reg NB 1 N171840	Reg NB 10 N141820	22:37 22:48 23:28 Reg NB 57 N011835 1	22:14 22:25 23:05 Reg NB 2 N152037 15	Reg NB 19 N161913	23:02 23:13 23:53 Night NB M2 N041852	Reg NB 23 N171940	Reg NB 18 N141920	23:14 23:25 0:05 Reg NB 67 N011935	0:02 0:13 0:53 Night NB 5 N041952	Reg NB M3 N142020	0:14 0:25 1:05 Reg NB 70 N012035	1:02 1:13 1:53 Night NB 13 N042052
476.9 ANA Anahe	Available -: Available -: Turns for -: Turns from -: Direction -: Trainse Train No: Pattern -:	19:32 19:43 20:23 Reg NB 12 N021605 2	Peak O/T NB 75 N201633 20 Central Valley	Peak O/T NB 53 N211635 21 S.Fern'do Valley	Reg NB 72 N141619 14 L.A	20:37 20:48 21:28 Reg NB 49 N011635	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F	Peak O/T NB 3 N191703 19 S.Fern'do	Peak O/T NB 20 N101642 10 Central	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop	20:32 20:43 21:23 Reg NB 6 N021705 2	Peak O/T NB 7 N201733 20 Central	Peak O/T NB 56 N211735 21 S.Fern'do	Reg NB 2 N141720 14 L.A	21:37 21:48 22:28 Reg NB 54 N011735	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley	22:07 Reg NB 14 N171810 17 S.Fern'do	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4	22:29 Reg NB 15 N161833 16 Central Valley	Reg NB 1 N171840 17 S.Fern'do	Reg NB 10 N141820 14 L.A	22:37 22:48 23:28 Reg NB 57 N011835	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F	Reg NB 19 N161913 16 Central	23:02 23:13 23:53 Night NB M2 N041852 4	Reg NB 23 N171940 17 S.Fern'do	Reg NB 18 N141920 14 L.A	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay	0:02 0:13 0:53 Night NB 5 N041952 4	Reg NB M3 N142020 14 L.A	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay	1:02 1:13 1:53 Night NB 13 N042052 4
476.9 ANA Anahe Northbound Mile Station	Available -2 Available -2 Turns from -2 Direction -2 Trains Train No2 Pattern -2 Service Type -2	Reg NB H 12 N021605 Reg N021605	Peak O/T NB 75 N201633 20 Central Valley	Peak O/T NB 53 N211635 21 S.Fern'do Valley	Reg NB 72 N141619 14 L.A	20:37 20:48 21:28 Reg NB 49 N011635 1 Bay Area	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley	Peak O/T NB 20 N101642 10 Central Valley	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop	20:32 20:43 21:23 Reg NB 6 N021705 2	Peak O/T NB 7 N201733 20 Central Valley	Peak O/T NB 56 N211735 21 S.Fern'do Valley	Reg NB 2 N141720 14 L.A	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley	22:07 Reg NB 14 N171810 17 S.Fern'do Valley	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local	22:29 Reg NB 15 N161833 16 Central Valley	Reg NB 1 N171840 17 S.Fern'do Valley	Reg NB 10 N141820 14 L.A	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop	Reg NB 23 N171940 17 S.Fern'do Valley	Reg NB 18 N141920 14 L.A	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area	0:02 0:13 0:53 Night NB 5 N041952 4	Reg NB M3 N142020 14 L.A	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area	1:02 1:13 1:53 Night NB 13 N042052 4 All-Stop
Northbound Mile Station 0.0 ANA Anahe	Available -: Available -: Turns from -: Direction -: Trainse Train No: Pattern -: Service Type -:	Reg ND21605 Reg N021605 2	Peak O/T NB 75 N201633 20 Central Valley	Peak O/T NB 53 N211635 21 S.Fern'do Valley	Reg NB 72 N141619 14 L.A Merced Local	20:37 20:48 21:28 Reg NB 49 N011635 1 Bay Area Limited	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley	Peak O/T NB 20 N101642 10 Central Valley Limited	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46	20:32 20:43 21:23 Reg NB 6 N021705 2 Express	Peak O/T NB 7 N201733 20 Central Valley	Peak O/T NB 56 N211735 21 S.Fern'do Valley	Reg NB 2 N141720 14 L.A Merced Local	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley	22:07 Reg NB 14 N171810 17 S.Fern'do Valley	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local	22:29 Reg NB 15 N161833 16 Central Valley	Reg NB 1 N171840 17 S.Fern'do Valley	Reg NB 10 N141820 14 L.A Merced Local	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop	Reg NB 23 N171940 17 S.Fern'do Valley	Reg NB 18 N141920 14 L.A Merced Local	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local	Reg NB M3 N142020 14 L.A	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited	1:02 1:13 1:53 1:53 Night NB 13 N042052 4 All-Stop Local
Mile Station 0.0 ANA Anahe 15.0 NSF Norwa	Available -: Available -: Turns from -: Turns from -: Direction -: Trainse Train No: Pattern -: Service Type -: sim Dep	Reg NB 12 N021605 2 Express 0 16:05 16:16	Peak O/T NB 75 N201633 20 Central Valley	Peak O/T NB 53 N211635 21 S.Fern'do Valley	Reg NB 72 N141619 14 L.A Merced Local 16:19	20:37 20:48 21:28 Reg NB 49 N011635 1 Bay Area Limited 16:35 16:46	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57	20:32 20:43 21:23 Reg NB 6 N021705 2 Express 17:05 17:16	Peak O/T NB 7 N201733 20 Central Valley	Peak O/T NB 56 N211735 21 S.Fern'do Valley	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley	22:07 Reg NB 14 N171810 17 S.Fern'do Valley	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03	22:29 Reg NB 15 N161833 16 Central Valley	Reg NB 1 N171840 17 S.Fern'do Valley	Reg NB 10 N141820 14 L.A Merced Local 18:20	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop Local 18:52 19:03	Reg NB 23 N171940 17 S.Fern'do Valley	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46	1:02 1:13 1:53 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03
Northbound Mile Station 0.0 ANA Anahe	Available - Available - Turns from - Turns from - Trainse Train No Pattern - Service Type - Sim Depute the Depute	Reg NB 12 N021605 2 Express 0 16:05 16:16 16:28	Peak O/T NB 75 N201633 20 Central Valley Limited	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42	20:37 20:48 21:28 Reg NB 49 N01635 1 Bay Area Limited 16:35 16:46 16:58	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited	Peak O/T NB 56 N211735 21 S.Fern'do Valley Limited	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited 17:35 17:46 17:58	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley Limited	Reg NB 14 N171810 17 S.Fern'do Valley Limited	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15	Reg NB 15 N161833 16 Central Valley Limited	Reg NB 1 N171840 17 S.Fern'do Valley Limited	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:43	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46 18:58	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop Local 18:52 19:03 19:15	Reg NB 23 N171940 17 S.Fern'do Valley Limited	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46 19:58	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46 20:58	1:02 1:13 1:53 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15
Mile Station 0.0 ANA Anahe 15.0 NSF Norwa 30.3 LAU L.A. U	Available -: Available -: Turns for -: Turns from -: Direction -: Trainsc Train No: Pattern -: Service Type -: sim Deg Ilk Deg nion Sta. Arr	Reg NB 12 N021605 2 Express 0 16:05 16:16 16:28 16:30	Peak O/T NB 75 N201633 20 Central Valley Limited	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42 16:44	20:37 20:48 21:28 Reg NB 49 N011635 1 Bay Area Limited 16:35 16:46	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05 17:07	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09 17:11	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited	Peak O/T NB 56 N211735 21 S.Fern'do Valley Limited	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43 17:45	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley Limited	22:07 Reg NB 14 N171810 17 S.Fern'do Valley Limited	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15 18:17	22:29 Reg NB 15 N161833 16 Central Valley	Reg NB 1 N171840 17 S.Fern'do Valley Limited	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:43 18:45	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop Local 18:52 19:03 19:15 19:17	Reg NB 23 N171940 17 S.Fern'do Valley Limited	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43 19:45	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15 20:17	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43 20:45	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46	1:02 1:13 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15 21:17
Mile Station 0.0 ANA Anahe 15.0 NSF Norwa 30.3 LAU L.A. U 40.6 BUR Burba	Available - Available - Turns for - Turns from - Direction - Trainse Train No Pattern - Service Type - Se	Reg NB 12 N021605 2 Express 16:16 16:28 16:30 D	Peak O/T NB 75 N201633 20 Central Valley Limited	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42 16:44 16:54	20:37 20:48 21:28 Reg NB 49 N01635 1 Bay Area Limited 16:35 16:46 16:58	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05 17:07 17:17	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09 17:11	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited	Peak O/T NB	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43 17:45 17:55	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited 17:35 17:46 17:58	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley Limited	22:07 Reg NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:27	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15 18:17	Reg NB 15 N161833 16 Central Valley Limited	Reg NB 1 N171840 17 S.Fern'do Valley Limited 18:40 18:57	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:43 18:45 18:55	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46 18:58	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop Local 18:52 19:03 19:15 19:17	Reg NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:57	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43 19:45 19:55	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46 19:58	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15 20:17 20:27	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43 20:45 20:55	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46 20:58	1:02 1:13 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15 21:17 21:27
Mile Station 0.0 ANA Anahe 15.0 NSF Norwa 30.3 LAU L.A. U 40.6 BUR Burba 51.1 SYL Sylma	Available - Available - Turns from - Turns from - Trainse Train No Pattern - Service Type - Service Type - Ilk Dep Inion Sta. Arr Dep Ink Dep Ink Dep Inc. Dep Inc	Reg NB H 12 N021605 Express D 16:05 D 16:16 H 16:28 D 16:30 D D D D D D D D D D D D D D D D D D D	Peak O/T NB 75 N201633 20 Central Valley Limited	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42 16:44 16:54 17:03	20:37 20:48 21:28 Reg NB 49 N01635 1 Bay Area Limited 16:35 16:46 16:58	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05 17:07	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09 17:11	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited	Peak O/T NB 56 N211735 21 S.Fern'do Valley Limited	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43 17:45 17:55 18:04	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited 17:35 17:46 17:58	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley Limited	22:07 Reg NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:27	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15 18:17 18:27 18:36	Reg NB 15 N161833 16 Central Valley Limited	Reg NB 1 N171840 17 S.Fern'do Valley Limited	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:43 18:45 19:04	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46 18:58	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop Local 18:52 19:03 19:15 19:17	Reg NB 23 N171940 17 S.Fern'do Valley Limited	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43 19:45 19:55 20:04	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46 19:58	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15 20:17	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43 20:45 20:55 21:04	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46 20:58	1:02 1:13 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15 21:17
Mile Station 0.0 ANA Anahe 15.0 NSF Norwa 30.3 LAU L.A. U 40.6 BUR Burba	Available - Available - Turns from - Turns from - Direction - Trainse Train No Pattern - Service Type - Service Type - Service Type - Arr Dep nk Dep nk Dep nk Dep nale Arr	Reg NB 12 N021605 2 Express 16:05 16:16 16:28 16:30	Peak O/T NB 75 N201633 20 Central Valley Limited 16:33 16:47	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:45	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42 16:44 17:03 17:23	20:37 20:48 21:28 Reg NB 49 N01635 1 Bay Area Limited 16:35 16:46 16:58	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited 17:03 17:17	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05 17:07	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09 17:11 17:30	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited 17:33 17:47	Peak O/T NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:45 17:54	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43 17:45 17:55 18:04 18:24	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited 17:35 17:46 17:58	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley Limited	22:07 Reg NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:27 18:29	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15 18:17 18:27 18:36 18:56	Reg NB 15 N161833 16 Central Valley Limited	Reg NB 1 N171840 17 S.Fern'do Valley Limited 18:40 18:57	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:43 18:45 18:55 19:04	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46 18:58	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop Local 18:52 19:03 19:15 19:17 19:27	Reg NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:57	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43 19:45 19:55 20:04 20:24	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46 19:58	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15 20:17 20:27 20:36	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43 20:45 20:55 21:04 21:24	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46 20:58	1:02 1:13 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15 21:17 21:27 21:36
Mile Station 0.0 ANA Anahe 15.0 NSF Norwa 30.3 LAU L.A. U 40.6 BUR Burba 51.1 SYL Sylma 89.4 PMD Palmo	Available - Available - Turns for - Turns from - Direction - Trainse Train No Pattern - Service Type - Service Type - Service Type - Arr Dep Nk Dep Name Arr Dep	Reg NB N021605 Express 16:05 16:16 16:28 16:30	Peak O/T NB 75 N201633 20 Central Valley Limited 16:33 16:47	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42 16:44 17:03 17:23	20:37 20:48 21:28 Reg NB 49 N01635 1 Bay Area Limited 16:35 16:46 16:58	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited 17:03 17:17	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05 17:07 17:17	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09 17:11 17:30 17:51	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited 17:33 17:47	Peak O/T NB	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43 17:45 17:55 18:04 18:24	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited 17:35 17:46 17:58	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley Limited	22:07 Reg NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:27 18:29	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15 18:17 18:27 18:36	Reg NB 15 N161833 16 Central Valley Limited	Reg NB 1 N171840 17 S.Fern'do Valley Limited 18:40 18:57	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:43 18:45 19:04	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46 18:58	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop Local 18:52 19:03 19:15 19:17 19:27	Reg NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:57	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43 19:45 19:55 20:04 20:24	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46 19:58	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15 20:17 20:27 20:36	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43 20:45 20:55 21:04	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46 20:58	1:02 1:13 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15 21:17 21:27
Mile Station 0.0 ANA Anahe 15.0 NSF Norwa 30.3 LAU L.A. U 40.6 BUR Burba 51.1 SYL Sylma	Available Available Turns for Turns from Direction Trainse Train No Pattern Service Type Service Type Service Type Ilk Dep nion Sta. Arr Dep nk Dep r Dep lale Arr	Reg NB 12 N021605 2 Express 16:30 16	Peak O/T NB 75 N201633 20 Central Valley Limited 16:33 16:47	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:45 16:54 17:26	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42 16:44 17:03 17:23 17:29	20:37 20:48 21:28 Reg NB 49 N01635 1 Bay Area Limited 16:35 16:46 16:58	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited 17:03 17:17	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05 17:07 17:17 17:42	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09 17:11 17:30 17:51 18:22	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited 17:33 17:47	Peak O/T NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:45 17:54	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43 17:45 18:30	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited 17:35 17:46 17:58	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley Limited	22:07 Reg NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:27 18:29	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15 18:17 18:27 18:36 18:56 19:01	Reg NB 15 N161833 16 Central Valley Limited	Reg NB 1 N171840 17 S.Fern'do Valley Limited 18:40 18:57	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:45 18:55 19:04 19:24 19:30	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46 18:58	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop Local 19:03 19:15 19:17 19:27 19:36 19:57	Reg NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:57	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43 19:45 19:55 20:04 20:24 20:30	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46 19:58	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15 20:17 20:27 20:36 20:57	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43 20:45 20:55 21:04 21:24 21:30	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46 20:58	1:02 1:13 1:53 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15 21:17 21:27 21:36 21:57
Mile Station O.O ANA Anahe 15.0 NSF Norwa 30.3 LAU L.A. U 40.6 BUR Burba 51.1 SYL Sylma 89.4 PMD Palmo	Available -2 Turns for -2 Turns from -2 Turns from -2 Trains -2 Train No2 Pattern -2 Service Type -2 Servic	Reg NB H 12 N021605 2 Express 16:05 16:16 16:28 16:30	Peak O/T NB 75 N201633 20 Central Valley Limited 16:33 16:47	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:45	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42 16:44 17:03 17:23 17:29	20:37 20:48 21:28 Reg NB 49 N01635 1 Bay Area Limited 16:35 16:46 16:58	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited 17:03 17:17	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05 17:07	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09 17:11 17:30 17:51	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited 17:33 17:47	Peak O/T NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:45 17:54	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43 17:45 18:30	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited 17:35 17:46 17:58	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley Limited	22:07 Reg NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:27 18:29	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15 18:17 18:27 18:36 18:56 19:01	Reg NB 15 N161833 16 Central Valley Limited	Reg NB 1 N171840 17 S.Fern'do Valley Limited 18:40 18:57	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:43 18:45 18:55 19:04	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46 18:58	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 Night NB M2 N041852 4 All-Stop Local 19:03 19:15 19:17 19:27 19:36 19:57	Reg NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:57	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43 19:45 19:55 20:04 20:24	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46 19:58	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15 20:17 20:27 20:36	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43 20:45 20:55 21:04 21:24 21:30	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46 20:58	1:02 1:13 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15 21:17 21:27 21:36
Mile Station 0.0 ANA Anahe 15.0 NSF Norwa 30.3 LAU L.A. U 40.6 BUR Burba 51.1 SYL Sylma 89.4 PMD Palmo	Available -2 Turns for -2 Turns from -2 Trains -2 Train No2 Train No2 Pattern -2 Service Type -2 Service	Reg NB 12 N021605 2 Express 16:30 16:28 16:30	Peak O/T NB 75 N201633 20 Central Valley Limited 16:33 16:47	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:45 16:54 17:26	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42 16:44 17:03 17:23 17:29 18:04	20:37 20:48 21:28 Reg NB 49 N01635 1 Bay Area Limited 16:35 16:46 16:58	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited 17:03 17:17	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05 17:07 17:17 17:42	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09 17:11 17:30 17:51 18:22 18:27	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited 17:33 17:47	Peak O/T NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:45 17:54	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43 17:45 17:55 18:04 18:24 18:30 19:05	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited 17:35 17:46 17:58	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	Reg NB 4 N161803 16 Central Valley Limited	22:07 Reg NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:27 18:29	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15 18:17 18:27 18:36 19:01 19:33	22:29 Reg NB 15 N161833 16 Central Valley Limited 18:33	Reg NB 1 N171840 17 S.Fern'do Valley Limited 18:40 18:57	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:43 18:45 19:04 19:24 19:30 20:05	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46 18:58	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 23:53 Night NB M2 N041852 4 All-Stop Local 18:52 19:03 19:15 19:27 19:36 19:57	Reg NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:57	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43 19:45 19:55 20:04 20:24 20:30 21:05	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46 19:58	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15 20:17 20:27 20:36 20:57 21:30	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43 20:45 20:55 21:04 21:24 21:30	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46 20:58	1:02 1:13 1:53 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15 21:17 21:27 21:36 21:57
Mile Station O.0 ANA Anahe 15.0 NSF Norwa 30.3 LAU L.A. U 40.6 BUR Burba 51.1 SYL Sylma 89.4 PMD Palmo	Available - Turns from - Turns from - Turns from - Trainse Train No Pattern - Service Type - Service Type - Service Type - Service Type - Arr Deg Arr Deg Sfield Arr Deg O Arr	Reg NB 12 N021605 2 Express 16:16 16:28 16:30	Peak O/T NB 75 N201633 20 Central Valley Limited 16:33 16:47	Peak O/T NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:45 16:54 17:26	Reg NB 72 N141619 14 L.A Merced Local 16:19 16:30 16:42 16:44 17:03 17:23 17:29	20:37 20:48 21:28 Reg NB 49 N01635 1 Bay Area Limited 16:35 16:46 16:58	20:14 20:25 21:05 Reg NB 69 N151837 15 S.F Merced	Peak O/T NB 3 N191703 19 S.Fern'do Valley Limited 17:03 17:17	Peak O/T NB 20 N101642 10 Central Valley Limited 16:42 16:53 17:05 17:07 17:17 17:42	21:08 21:19 21:59 Peak O/T NB 55 N041646 4 All-Stop Local 16:46 16:57 17:09 17:11 17:30 17:51 18:22 18:27	Reg NB 6 N021705 2 Express 17:16 17:28	Peak O/T NB 7 N201733 20 Central Valley Limited 17:33 17:47	Peak O/T NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:45 17:54	Reg NB 2 N141720 14 L.A Merced Local 17:20 17:31 17:43 17:45 18:30	21:37 21:48 22:28 Reg NB 54 N011735 1 Bay Area Limited 17:35 17:46 17:58	21:02 21:14 21:25 22:05 Reg NB 72 N151937 15 S.F	21:59 Reg NB 4 N161803 16 Central Valley Limited 18:03	22:07 Reg NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:27 18:29	21:54 22:06 22:17 22:57 Reg NB M1 N041752 4 All-Stop Local 17:52 18:03 18:15 18:17 18:27 18:36 19:01 19:33	Reg NB 15 N161833 16 Central Valley Limited	Reg NB 1 N171840 17 S.Fern'do Valley Limited 18:40 18:57	Reg NB 10 N141820 14 L.A Merced Local 18:20 18:31 18:45 18:55 19:04 19:24 19:30	22:37 22:48 23:28 Reg NB 57 N011835 1 Bay Area Limited 18:35 18:46 18:58	22:14 22:25 23:05 Reg NB 2 N152037 15 S.F Merced	Reg NB 19 N161913 16 Central Valley Limited	23:02 23:13 23:53 23:53 Night NB M2 N041852 4 All-Stop Local 18:52 19:03 19:15 19:27 19:36 19:57	Reg NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:57	Reg NB 18 N141920 14 L.A Merced Local 19:20 19:31 19:43 19:45 19:55 20:04 20:24 20:30	23:14 23:25 0:05 Reg NB 67 N011935 1 Bay Area Limited 19:35 19:46 19:58	0:02 0:13 0:53 Night NB 5 N041952 4 All-Stop Local 19:52 20:03 20:15 20:17 20:27 20:36 20:57	Reg NB M3 N142020 14 L.A Merced Local 20:20 20:31 20:43 20:45 20:55 21:04 21:24 21:30 22:05	0:14 0:25 1:05 Reg NB 70 N012035 1 Bay Area Limited 20:35 20:46 20:58	1:02 1:13 1:53 1:53 Night NB 13 N042052 4 All-Stop Local 20:52 21:03 21:15 21:17 21:27 21:36 21:57

Available → 19:49 20:21 20:27 19:46 20:30 20:41 20:27 19:46 20:30 20:41 20:45 20:57 21:18 20:49 21:21 21:27 20:47 21:30 21:41 21:51 21:56 22:24 22:21 22:26 21:47 22:30 22:41 23:01 23:26 22:47 23:30 0:21 23:47 0:30 1:21

20:09 20:13 20:24 20:34 20:57 20:54 21:04

20:24 20:30 **20:41** 20:51 21:14 21:11 21:21

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20:00 20:11 20:15 20:27 20:48 **20:19** 20:51 20:57

19:09 19:13 19:23 19:36 19:51

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Turns for →

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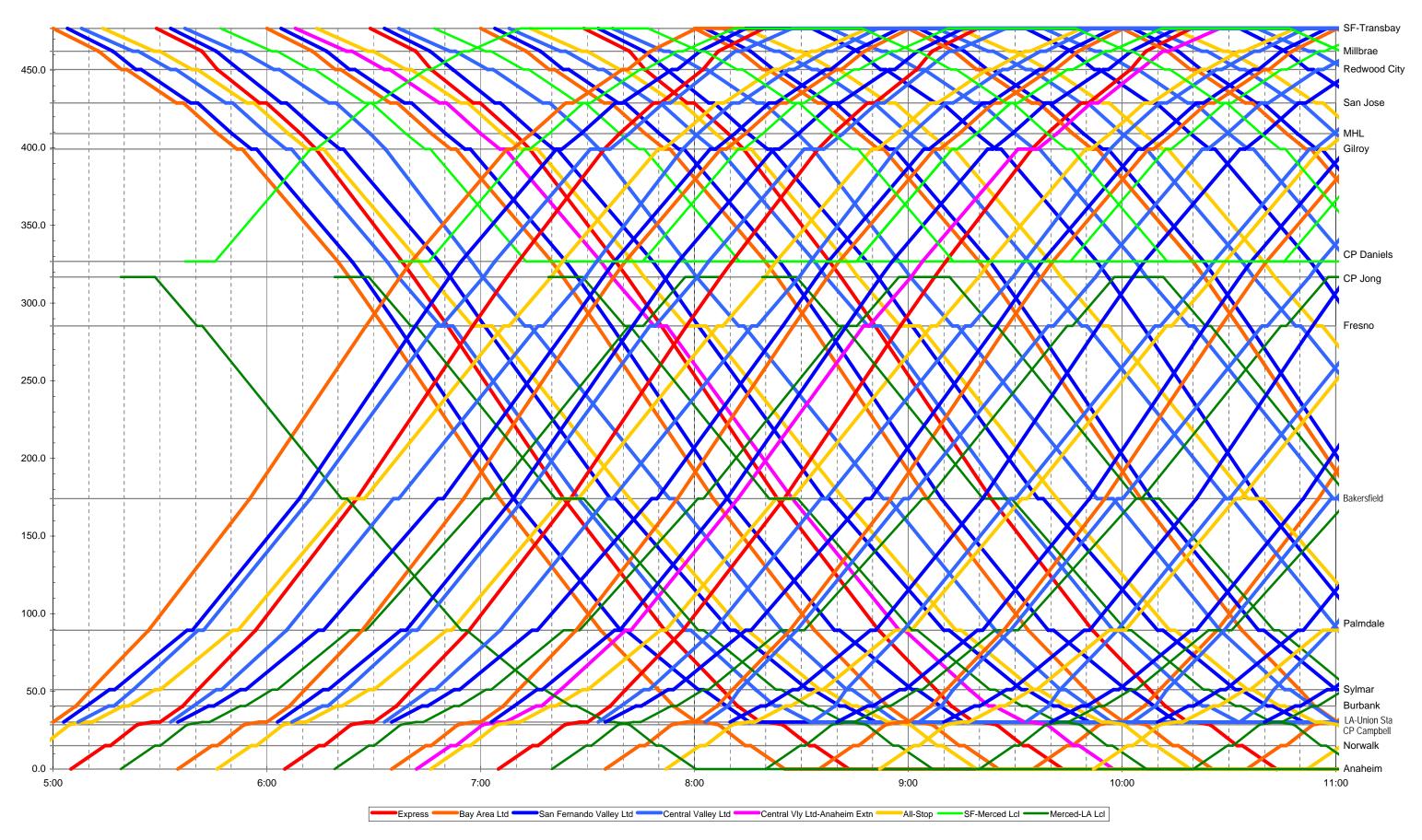
A2. Stringline Diagrams

- Morning Peak Period
- Mid-Day Period
- Afternoon Peak Period
- Evening and Late Night Period



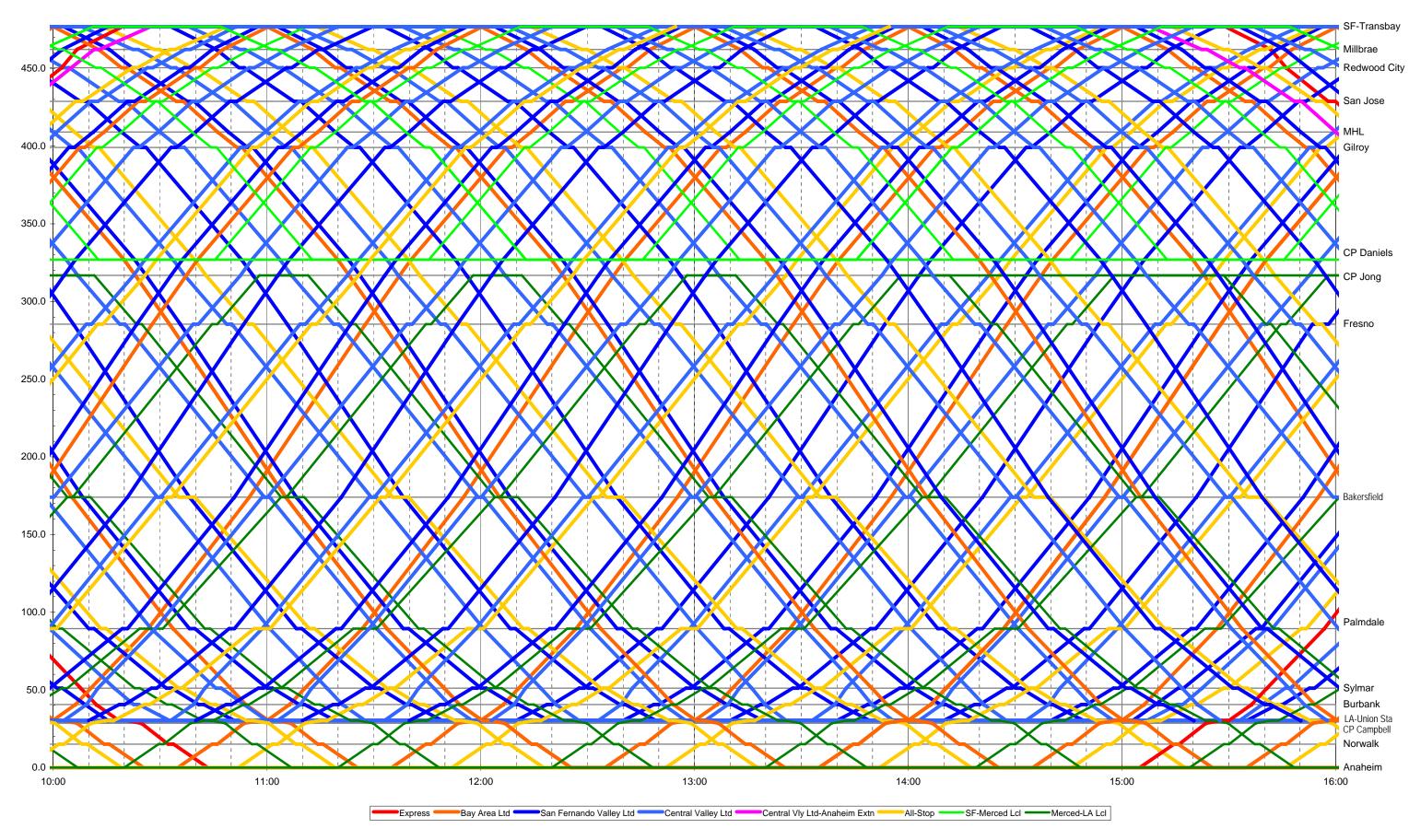
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Appendix A2 - HST PHASE 1 SERVICE PLAN - BASE (Version 10) - MORNING PEAK

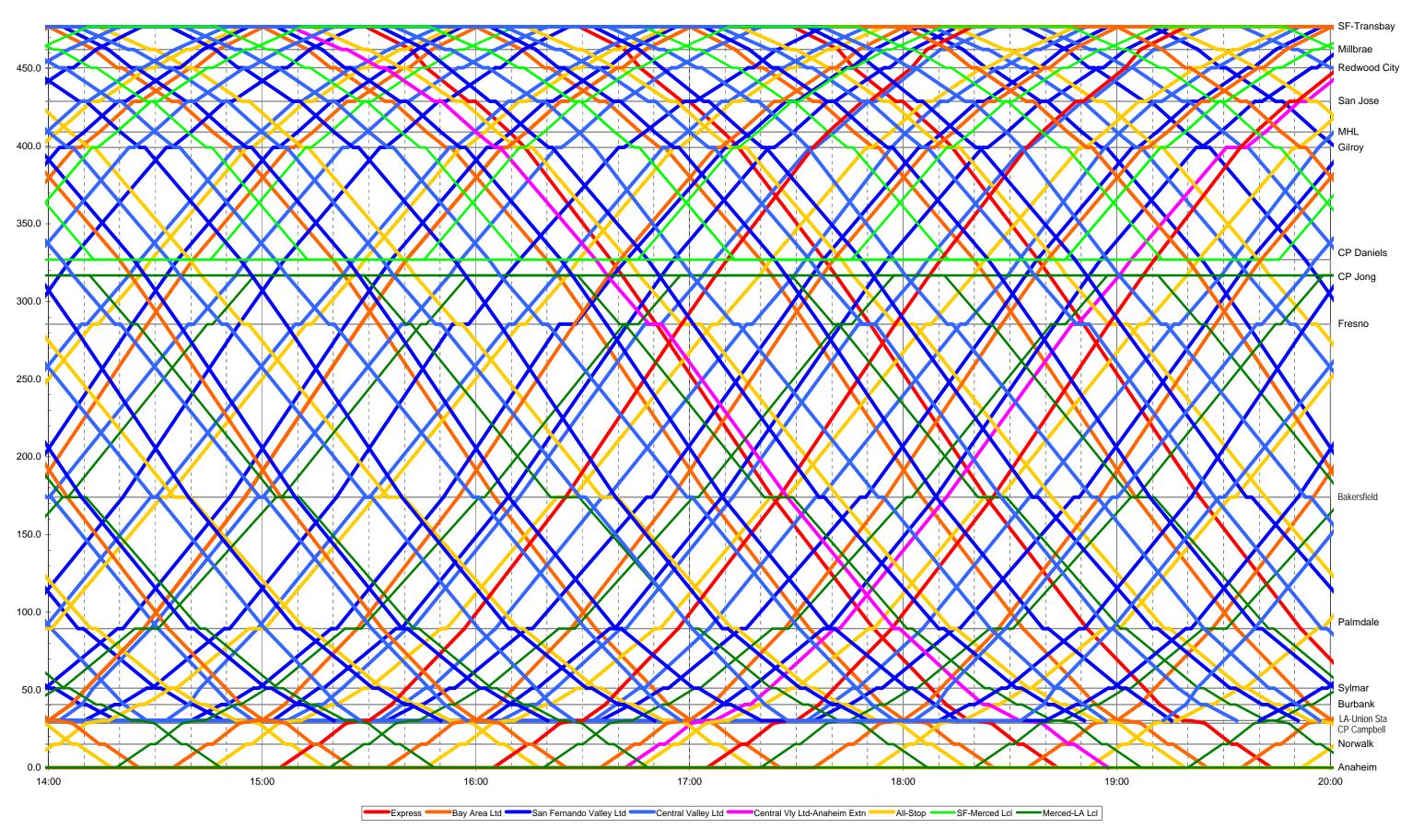


STRINGLINE DIAGRAM

Appendix A2 - HST PHASE 1 SERVICE PLAN - BASE (Version 10) - MID-DAY

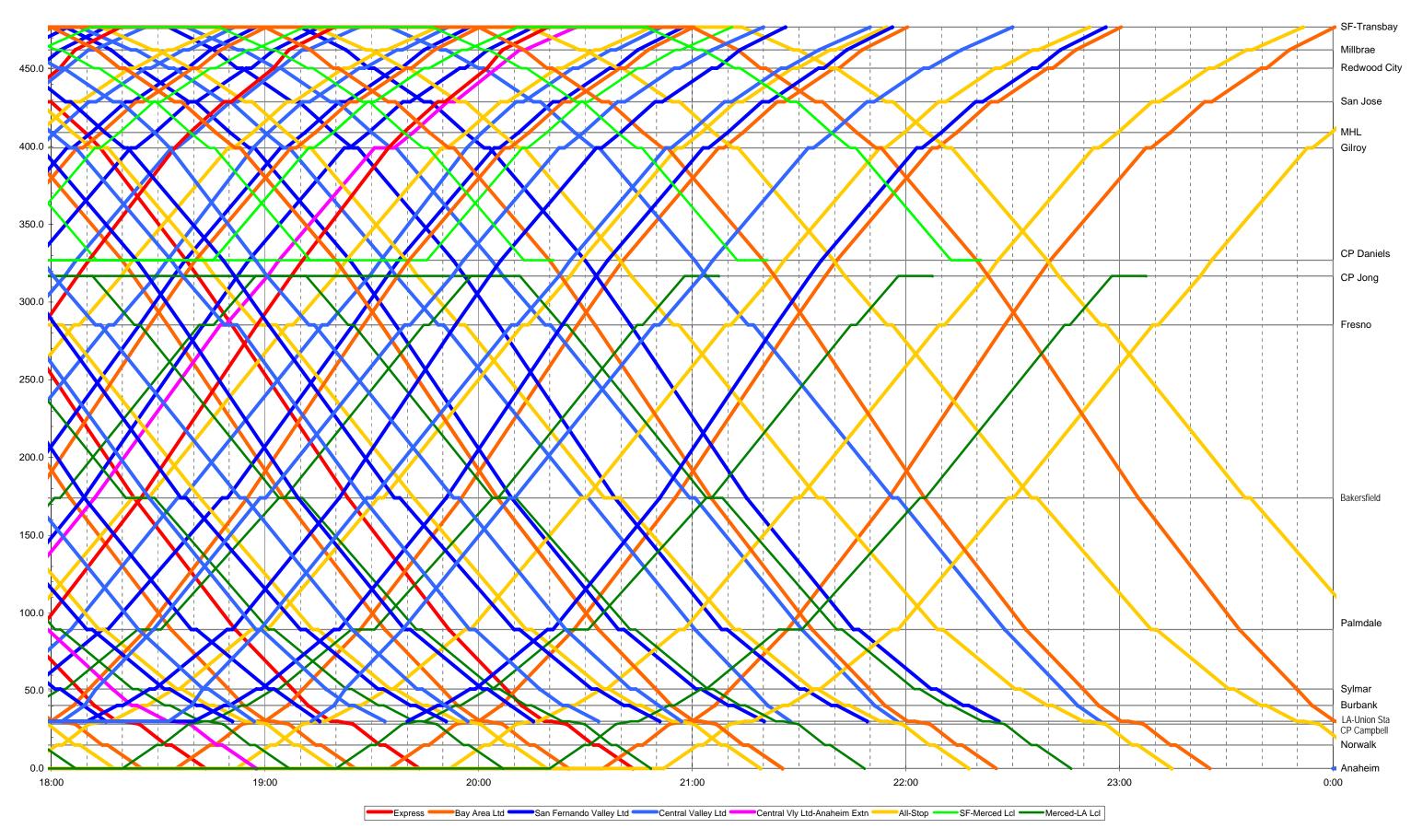


Appendix A2 - HST PHASE 1 SERVICE PLAN - BASE (Version 10) - AFTERNOON PEAK



STRINGLINE DIAGRAM

Appendix A2 - HST PHASE 1 SERVICE PLAN - BASE (Version 10) - LATE EVENING





Phase I Service Plan, R0

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A3. Equipment Cycles



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AI I L	IDIX AU L		VII—IVI	O.OL		AOL I BAOL	OLIV.	OL I LAN (VEISION 10)														200m	
ID	OvertkScheme	Dir	Set	Set2	Consist	Train No.	Pattern	Train Type	Orig	OrigTime	Dest	DestTime	RunTime	MinLay	Avail	Layover	Excess	DestArr	DestDep	Т	TrnMi	SetMi	Wkend Yd
2	Reg	SB	1	X11	400	S010500	1	Bay Area Ltd	SFT	5:00	ANA	8:25	3:25	40	9:05	0:55	15	8:25	9:20	$\dot{-}$	476.9	953.8	476.9
174	Peak O/T	NB	1	,,,,		N140920	14	LA-Merced	ANA	9:20	MCD	12:08	2:48	30	12:38	0:29	(1)	12:08	12:37		354.3	354.3	354.3
184	Reg	NB	1			N151237	15	SF-Merced	MCD	12:37	SFT	14:11	1:34	40	14:51	0:27	(13)	14:11	14:38	*	161.2	161.2	161.2
83	Reg	SB	1			S161438	16	Central Vly. Ltd	SFT	14:38	LAU	17:57	3:19	40	18:37	0:43	3	17:57	18:40		446.6	446.6	0
248	Reg	NB	1			N171840	17	S.Fernando Vly. Ltd	LAU	18:40	SFT	21:56	3:16	30	22:26			21:56			446.6	446.6	446.6
3	Peak O/T	SB	2			S190504	19	S.Fernando Vly. Ltd	SFT	5:04	LAU	8:15	3:11	40	8:55	0:48	8	8:15	9:03		446.6	446.6	446.6
169	Reg	NB	2			N160903	16	Central Vly. Ltd	LAU	9:03	SFT	12:21	3:18	30	12:51	0:39	9	12:21	13:00		446.6	446.6	0
70	Reg	SB	2	X5	400	S011300	1	Bay Area Ltd	SFT	13:00	ANA	16:25	3:25	40	17:05	0:55	15	16:25	17:20		476.9	953.8	476.9
241	Reg	NB	2	710	400	N141720	14	LA-Merced	ANA	17:20	MCD	20:07	2:47	30	20:37	0:30	0	20:07	20:37		354.3	708.6	354.3
251	Reg	NB	2			N152037	15	SF-Merced	MCD	20:37	SFT	22:11	1:34	40	22:51			22:11			161.2	161.2	161.2
5	Peak O/T	SB	3			S180508	18	Central Vly. Ltd	SFT	5:08	LAU	8:34	3:26	40	9:14	0:36	(4)	8:34	9:10		446.6	446.6	446.6
170	Reg	NB	3			N170910	17	S.Fernando Vly. Ltd	LAU	9:10	SFT	12:26	3:16	30	12:56	0:37	7	12:26	13:03		446.6	446.6	446.6
71	Peak O/T	SB	3			S171303	17	S.Fernando Vly. Ltd	SFT	13:03	LAU	16:19	3:16	40	16:59	0:44	4	16:19	17:03	-	446.6	446.6	446.6
235	Peak O/T	NB	3		400	N191703	19	S.Fernando Vly. Ltd	LAU	17:03	SFT	20:15	3:12	30	20:45	0:32	2	20:15	20:47	_	446.6	893.2	446.6
128	Reg	SB	3		100	S152047	15	SF-Merced	SFT	20:47	MCD	22:21	1:34	40	23:01		<u>-</u>	22:21			161.2	161.2	161.2
6	Peak O/T	SB	4			S040514	4	All-Stop	SFT	5:14	ANA	9:19	4:05	40	9:59	0:51	11	9:19	10:10		476.9	476.9	476.9
178	Reg	NB	4			N171010	17	S.Fernando Vly. Ltd	LAU	10:10	SFT	13:26	3:16	30	13:56	0:37	7	13:26	14:03		446.6	446.6	446.6
78	Peak O/T	SB	4			S171403	17	S.Fernando Vly. Ltd	SFT	14:03	LAU	17:19	3:16	40	17:59	0:44	4	17:19	18:03		446.6	446.6	446.6
244	Reg	NB	4			N161803	16	Central Vly. Ltd	LAU	18:03	SFT	21:21	3:18	30	21:51			21:21			446.6	446.6	0
7	Reg	SB	5	SX1	400	S020529	2	Express	SFT	5:29	ANA	8:43	3:14	40	9:23	0:52	12	8:43	9:35		446.6	893.2	0
175	Reg	NB	5	X11	400	N010935	1	Bay Area Ltd	ANA	9:35	SFT	13:00	3:25	30	13:30	0:47	17	13:00	13:47		476.9	953.8	476.9
76	Reg	SB	5	XII	700	S151347	15	SF-Merced	SFT	13:47	MCD	15:21	1:34	40	16:01	0:58	18	15:21	16:19	_	161.2	161.2	161.2
87	Peak O/T	SB	5			S141619	14	LA-Merced	MCD	16:19	ANA	19:07	2:48	40	19:47	0:45	5	19:07	19:52		354.3	354.3	354.3
257	Night	NB	5			N041952	4	All-Stop	ANA	19:52	SFT	23:51	3:59	30	0:21			23:51			476.9	476.9	476.9
8	Peak O/T	SB	6			S210533	21	S.Fernando Vly. Ltd	SFT	5:33	LAU	8:51	3:18	40	9:31	0:42	2	8:51	9:33		446.6	446.6	446.6
172	Reg	NB	6			N160933	16	Central Vly. Ltd	LAU	9:33	SFT	12:51	3:18	30	13:21	0:17	(13)	12:51	13:08	*	446.6	446.6	0
72	Reg	SB	6			S161308	16	Central Vly. Ltd	SFT	13:08	LAU	16:27	3:19	40	17:07	0:38	(2)	16:27	17:05		446.6	446.6	0
238	Reg	NB	6	SX6	400	N021705	2	Express	ANA	17:05	SFT	20:19	3:14	30	20:49			20:19			446.6	893.2	0
9	Peak O/T	SB	7	OAO	400	S200537	20	Central Vly. Ltd	SFT	5:37	LAU	8:57	3:20	40	9:37	0:43	3	8:57	9:40		446.6	446.6	446.6
173	Reg	NB	7			N170940	17	S.Fernando Vly. Ltd	LAU	9:40	SFT	12:56	3:16	30	13:26	0:37	7	12:56	13:33	_	446.6	446.6	446.6
74	Reg	SB	7			S171333	17	S.Fernando Vly. Ltd	SFT	13:33	LAU	16:49	3:16	40	17:29	0:44	4	16:49	17:33		446.6	446.6	446.6
239	Peak O/T	NB	7			N201733	20	Central Vly. Ltd	LAU	17:33	SFT	20:51	3:18	30	21:21			20:51			446.6	446.6	446.6
10	Reg	SB	8			S150547	15	SF-Merced	SFT	5:47	MCD	7:21	1:34	40	8:01	0:58	18	7:21	8:19		161.2	161.2	161.2
22	Peak O/T	SB	8			S140819	14	LA-Merced	MCD	8:19	ANA	11:07	2:48	40	11:47	0:45	5	11:07	11:52		354.3	354.3	354.3
195	Reg	NB	8			N041152	4	All-Stop	ANA	11:52	SFT	15:54	4:02	30	16:24	0:20	(10)	15:54	16:14	*	476.9	476.9	476.9
98	Peak O/T	SB	8		400	S041614	4	All-Stop	SFT	16:14	ANA	20:19	4:05	40	20:59		(10)	20:19			476.9	953.8	476.9
11	Reg	SB	9	X12	400	S010600	1	Bay Area Ltd	SFT	6:00	ANA	9:25	3:25	40	10:05	0:55	15	9:25	10:20		476.9	953.8	476.9
182	Reg	NB	9	712	400	N141020	14	LA-Merced	ANA	10:20	MCD	13:07	2:47	30	13:37	0:30	0	13:07	13:37		354.3	354.3	354.3
192	Reg	NB	9			N151337	15	SF-Merced	MCD	13:37	SFT	15:11	1:34	40	15:51	0:36	(14)	15:11	15:37	*	161.2	161.2	161.2
92	Peak O/T	SB	9			S201537	20	Central Vly. Ltd	SFT	15:37	LAU	18:57	3:20	40	19:37			18:57			446.6	446.6	446.6
12	Peak O/T	SB				S190604	19	S.Fernando Vly. Ltd	SFT	6:04	LAU	9:15	3:11	40	9:55	0:48	8	9:15	10:03	_	446.6	446.6	446.6
177		NB				N161003	16	Central Vly. Ltd	LAU	10:03	SFT	13:21	3:18	30	13:51	0:39	9	13:21	14:00		446.6	446.6	0
77	Reg Reg		10	X11	400	S011400	10	Bay Area Ltd	SFT	14:00	ANA	17:25	3:25	40	18:05	0:55	15	17:25	18:20	_	476.9	953.8	476.9
249		NB		AII	400	N141820	1/	LA-Merced		18:20	MCD	21:07	2:47		21:37			21:07			354.3	354.3	354.3
14	Reg Peak O/T	SB			400	S100608	14 10	Central Vly. Ltd Ext.	ANA SFT	6:08	ANA	9:59	3:51	30 40	10:39	5:06	266	9:59	15:05		476.9	953.8	0 YAN
220		NB		SX4	400	N021505	2	Express	ANA		SFT	18:19	3:14	30	18:49	0:41		18:19	19:00		446.6	893.2	0
121	Reg Reg		11	X2	400	S011900	1	Bay Area Ltd	SFT	15:05 19:00	ANA	22:25	3:14	40	23:05		11 	22:25	19.00 		476.9	953.8	476.9
15	Peak O/T	SB		ΛZ	400	S040614	4	All-Stop	SFT	6:14	ANA	10:19	4:05	40	10:59	5:46	306	10:19	16:05		476.9	953.8	476.9 YAN
229			12	SX5	400	N021605	2	Express	ANA	16:05	SFT	19:19	3:14	30	19:49	5.46		19:19			446.6	893.2	0 YAN
16	Reg	SB		SX2	400	S020629			SFT	6:29	ANA	9:43	3:14	40	10:23	0:52	12	9:43	10:35			893.2	0
	Reg						2	Express													446.6		
183	Reg	NB	13	X12	400	N011035		Bay Area Ltd	ANA	10:35	SFT	14:00	3:25	30	14:30	0:47	17	14:00	14:47		476.9	953.8	476.9

			. .							0.1.71		5 .TI					_	5	5 .5	_		200m	
ID	OvertkScheme	Dir		Set2	Consist	Train No.	Pattern	71	Orig	OrigTime		DestTime	RunTime	MinLay		Layover		DestArr	DestDep	l	TrnMi	SetMi	Wkend Yd
84	Reg	SB	13		400	S151447	15	SF-Merced	SFT		MCD	16:21	1:34	40	17:01	0:58	18	16:21	17:19		161.2	161.2	161.2
96	Peak O/T	SB	13		400	S141719	14	LA-Merced	MCD	17:19	ANA	20:07	2:48	40	20:47	0:45	5	20:07	20:52		354.3	708.6	354.3
260	Night	NB	13		400	N042052	4	All-Stop	ANA	20:52	SFT	0:51	3:59	30	1:21			0:51			476.9	476.9	476.9
17	Peak O/T	SB	14		400	S210633	21	S.Fernando Vly. Ltd	SFT	6:33	LAU	9:51	3:18	40	10:31	0:42	2	9:51	10:33	•	446.6	893.2	446.6
180	Reg	NB	14			N161033	16	Central VIy. Ltd	LAU	10:33	SFT	13:51	3:18	30	14:21	0:17	(13)	13:51	14:08		446.6	446.6	0
80	Reg	SB	14			S161408	16	Central Vly. Ltd	SFT	14:08	LAU	17:27	3:19	40	18:07	0:43	3	17:27	18:10		446.6	446.6	0
245 18	Reg Peak O/T	NB SB	14 15			N171810 S200637	17 20	S.Fernando Vly. Ltd Central Vly. Ltd	SFT	18:10 6:37	SFT	21:26 9:57	3:16 3:20	30 40	21:56 10:37	0:43	3	21:26 9:57	10:40		446.6 446.6	446.6 446.6	446.6 446.6
181		NB	15			N171040	17	S.Fernando VIy. Ltd	LAU	10:40	SFT	13:56	3:16	30	14:26	0:37	7	13:56	14:33		446.6	446.6	446.6
82	Reg Reg	SB	15			S171433	17	S.Fernando Vly. Ltd	SFT	14:33	LAU	17:49	3:16	40	18:29	0:37	4	17:49	18:33		446.6	446.6	446.6
247	Reg	NB	15			N161833	16	Central Vly. Ltd	LAU	18:33	SFT	21:51	3:18	30	22:21			21:51			446.6	446.6	0
19	Reg	SB	16			S150647	15	SF-Merced	SFT	6:47	MCD	8:21	1:34	40	9:01	0:41	1	8:21	9:02		161.2	161.2	161.2
29	Reg	SB	16			S140902	14	LA-Merced	MCD	9:02	ANA	11:48	2:46	40	12:28	0:47	7	11:48	12:35		354.3	354.3	354.3
199	Reg	NB	16	X14	400	N011235	1	Bay Area Ltd	ANA	12:35	SFT	16:00	3:25	30	16:30	0:47	17	16:00	16:47		476.9	953.8	476.9
102	Reg	SB	16	, , , ,		S151647	15	SF-Merced	SFT	16:47	MCD	18:21	1:34	40	19:01	0:41	1	18:21	19:02		161.2	161.2	161.2
112	Reg	SB	16			S141902	14	LA-Merced	MCD	19:02	ANA	21:48	2:46	40	22:28			21:48			354.3	354.3	354.3
20	Reg	SB	17	X13	400	S010700	1	Bay Area Ltd	SFT	7:00	ANA	10:25	3:25	40	11:05	0:55	15	10:25	11:20		476.9	953.8	476.9
190	Reg	NB	17			N141120	14	LA-Merced	ANA	11:20	MCD	14:07	2:47	30	14:37	0:30	0	14:07	14:37		354.3	354.3	354.3
200	Reg	NB	17			N151437	15	SF-Merced	MCD	14:37	SFT	16:11	1:34	40	16:51	0:26	(14)	16:11	16:37	*	161.2	161.2	161.2
101	Peak O/T	SB	17			S201637	20	Central Vly. Ltd	SFT	16:37	LAU	19:57	3:20	40	20:37			19:57			446.6	446.6	446.6
21	Peak O/T	SB	18		400	S190704	19	S.Fernando Vly. Ltd	SFT	7:04	LAU	10:15	3:11	40	10:55	0:48	8	10:15	11:03		446.6	893.2	446.6
185	Reg	NB	18			N161103	16	Central Vly. Ltd	LAU	11:03	SFT	14:21	3:18	30	14:51	0:39	9	14:21	15:00		446.6	446.6	0
85	Reg	SB	18	X12	400	S011500	1	Bay Area Ltd	SFT	15:00	ANA	18:25	3:25	40	19:05	0:55	15	18:25	19:20		476.9	953.8	476.9
255	Reg	NB	18			N141920	14	LA-Merced	ANA	19:20	MCD	22:07	2:47	30	22:37			22:07			354.3	354.3	354.3
23	Peak O/T	SB	19			S180708	18	Central Vly. Ltd	SFT	7:08	LAU	10:34	3:26	40	11:14	0:36	(4)	10:34	11:10		446.6	446.6	446.6
186	Reg	NB	19			N171110	17	S.Fernando Vly. Ltd	LAU	11:10	SFT	14:26	3:16	30	14:56	0:38	8	14:26	15:04		446.6	446.6	446.6
86	Peak O/T	SB	19			S191504	19	S.Fernando Vly. Ltd	SFT	15:04	LAU	18:15	3:11	40	18:55	0:58	18	18:15	19:13		446.6	446.6	446.6
252	Reg	NB	19			N161913	16	Central Vly. Ltd	LAU	19:13	SFT	22:31	3:18	30	23:01			22:31			446.6	446.6	0
24	Peak O/T	SB	20		400	S040714	4	All-Stop	SFT	7:14	ANA	11:19	4:05	40	11:59	5:23	283	11:19	16:42		476.9	953.8	476.9 YAN
236	Peak O/T	NB	20		400	N101642	10	Central Vly. Ltd Ext.	ANA	16:42	SFT	20:27	3:45	30	20:57	0:33	3	20:27	21:00		476.9	953.8	0
129	Reg	SB	20	X4	400	S012100	1	Bay Area Ltd	SFT	21:00	ANA	0:25	3:25	40	1:05			0:25			476.9	953.8	476.9
25	Reg	SB	21	SX3	400	S020729	2	Express	SFT	7:29	ANA	10:43	3:14	40	11:23	0:52	12	10:43	11:35		446.6	893.2	0
191	Reg	NB	21	X13	400	N011135	1	Bay Area Ltd	ANA	11:35	SFT	15:00	3:25	30	15:30	0:47	17	15:00	15:47		476.9	953.8	476.9
93	Reg	SB	21			S151547	15	SF-Merced	SFT	15:47	MCD	17:21	1:34	40	18:01	0:41	1	17:21	18:02		161.2	161.2	161.2
103	Reg	SB	21			S141802	14	LA-Merced	MCD	18:02	ANA	20:48	2:46	40	21:28			20:48	44.00		354.3	354.3	354.3
26	Peak O/T	SB	22			S210733	21	S.Fernando Vly. Ltd	SFT	7:33	LAU	10:51	3:18	40	11:31	0:42	2	10:51	11:33	*	446.6	446.6	446.6
188	Reg	NB	22		400	N161133	16	Central VIv. Ltd	LAU	11:33	SFT	14:51	3:18	30	15:21	0:17	(13)	14:51	15:08		446.6	446.6	0
88	Peak O/T	SB SB			400	S101508 S200737	10	Central Vly. Ltd Ext. Central Vly. Ltd	SFT SFT	15:08	ANA	18:59	3:51 3:20	40	19:39	0.42		18:59	11.40		476.9	953.8	0
27	Peak O/T					N171140	20	S.Fernando Vly. Ltd		7:37	LAU	10:57		40	11:37	0:43	3	10:57	11:40		446.6	446.6	446.6 446.6
189 91	Reg Peak O/T	SB	23 23			S211533	17 21	S.Fernando Vly. Ltd	LAU SFT	11:40 15:33	SFT	14:56 18:51	3:16 3:18	30 40	15:26 19:31	0:37 0:49	7 9	14:56 18:51	15:33 19:40		446.6 446.6	446.6 446.6	446.6
254			23			N171940	17	S.Fernando Vly. Ltd	LAU	19:40	SFT	22:56	3:16	30	23:26			22:56			446.6	446.6	446.6
28	Reg Reg	SB	24			S150747	15	SF-Merced	SFT	7:47	MCD	9:21	1:34	40	10:01	0:41	 1	9:21	10:02		161.2	161.2	161.2
37	Reg	SB	24			S141002	14	LA-Merced	MCD	10:02	ANA	12:48	2:46	40	13:28	0:47	7	12:48	13:35		354.3	354.3	354.3
207	Reg	NB	24	X1	400	N011335	1	Bay Area Ltd	ANA	13:35	SFT	17:00	3:25	30	17:30	0:29	(1)	17:00	17:29		476.9	953.8	476.9
108	Reg		24	SX6	400	S021729	2	Express	SFT	17:29	ANA	20:43	3:14	40	21:23			20:43			446.6	893.2	0
30	Reg	SB	25	X14	400	S010800	1	Bay Area Ltd	SFT	8:00	ANA	11:25	3:25	40	12:05	0:55	15	11:25	12:20		476.9	953.8	476.9
198	Reg	NB	25	/\ 1 T	100	N141220	14	LA-Merced	ANA	12:20	MCD	15:07	2:47	30	15:37	0:30	0	15:07	15:37		354.3	354.3	354.3
208	Reg	NB	25			N151537	15	SF-Merced	MCD	15:37	SFT	17:11	1:34	40	17:51	0:26	(14)	17:11	17:37	*	161.2	161.2	161.2
110	Peak O/T	SB	25			S201737	20	Central Vly. Ltd	SFT	17:37	LAU	20:57	3:20	40	21:37			20:57			446.6	446.6	446.6
32	Reg	SB				S160808	16	Central Vly. Ltd	SFT	8:08		11:27	3:19	40	12:07	0:43	3	11:27	12:10		446.6	446.6	0
_	- 3							,									-						

, _ .	-						0	OLI LAN (VEISION 10)														200m	
ID	OvertkScheme	Dir	Set	Set2	Consist	Train No.	Pattern	Train Type	Orig	OrigTime	Dest	DestTime	RunTime	MinLav	Avail	Layover	Excess	DestArr	DestDep	Т	TrnMi	SetMi	Wkend Yd
194	Reg	NB	26			N171210	17	S.Fernando Vly. Ltd	LAU	12:10	SFT	15:26	3:16	30	15:56	0:38	8	15:26	16:04		446.6	446.6	446.6
95	Peak O/T	SB	26			S191604	19	S.Fernando Vly. Ltd	SFT	16:04	LAU	19:15	3:11	40	19:55			19:15			446.6	446.6	446.6
33	Reg	SB	27		400	S040814	4	All-Stop	SFT	8:14	ANA	12:17	4:03	40	12:57	0:35	(5)	12:17	12:52		476.9	953.8	476.9
203	Reg	NB	27			N041252	4	All-Stop	ANA	12:52	SFT	16:54	4:02	30	17:24	0:20	(10)	16:54	17:14	*	476.9	476.9	476.9
107	Peak O/T	SB	27		400	S041714	4	All-Stop	SFT	17:14	ANA	21:19	4:05	40	21:59			21:19			476.9	953.8	476.9
132	Reg	NB	41	X1	400	N010435	1	Bay Area Ltd	ANA	4:35	SFT	8:00	3:25	30	8:30	0:33	3	8:00	8:33		476.9	953.8	476.9
34	Reg	SB	41			S170833	17	S.Fernando Vly. Ltd	SFT	8:33	LAU	11:49	3:16	40	12:29	0:44	4	11:49	12:33		446.6	446.6	446.6
196	Reg	NB	41			N161233	16	Central Vly. Ltd	LAU	12:33	SFT	15:51	3:18	30	16:21	0:17	(13)	15:51	16:08	*	446.6	446.6	0
97	Peak O/T	SB	41			S181608	18	Central Vly. Ltd	SFT	16:08	LAU	19:34	3:26	40	20:14			19:34			446.6	446.6	446.6
136	Peak O/T	NB	42			N040446	4	All-Stop	ANA	4:46	SFT	8:48	4:02	30	9:18	0:26	(4)	8:48	9:14		476.9	476.9	476.9
41	Reg	SB	42			S040914	4	All-Stop	SFT	9:14	ANA	13:17	4:03	40	13:57	0:35	(5)	13:17	13:52		476.9	476.9	476.9
211	Reg	NB	42			N041352	4	All-Stop	ANA	13:52	SFT	17:54	4:02	30	18:24	0:09	(21)	17:54	18:03	*	476.9	476.9	476.9
114	Reg	SB	42			S171803	17	S.Fernando Vly. Ltd	SFT	18:03	LAU	21:19	3:16	40	21:59			21:19			446.6	446.6	446.6
137	Reg	NB	43	SX1	400	N020505	2	Express	ANA	5:05	SFT	8:19	3:14	30	8:49	0:44	14	8:19	9:03		446.6	893.2	0
39	Reg	SB	43			S170903	17	S.Fernando Vly. Ltd	SFT	9:03	LAU	12:19	3:16	40	12:59	0:44	4	12:19	13:03		446.6	446.6	446.6
201	Reg	NB	43			N161303	16	Central Vly. Ltd	LAU	13:03	SFT	16:21	3:18	30	16:51	0:39	9	16:21	17:00		446.6	446.6	0
104	Reg	SB	43	X14	400	S011700	1	Bay Area Ltd	SFT	17:00	ANA	20:25	3:25	40	21:05			20:25			476.9	953.8	476.9
140	Peak O/T	NB	44			N140519	14	LA-Merced	ANA	5:19	MCD	8:07	2:48	30	8:37	0:30	0	8:07	8:37		354.3	354.3	354.3
151	Reg	NB	44			N150837	15	SF-Merced	MCD	8:37	SFT	10:11	1:34	40	10:51	0:27	(13)	10:11	10:38	*	161.2	161.2	161.2
51	Reg	SB	44			S161038	16	Central Vly. Ltd	SFT	10:38	LAU	13:57	3:19	40	14:37	0:43	3	13:57	14:40		446.6	446.6	0
213	Reg	NB	44			N171440	17	S.Fernando Vly. Ltd	LAU	14:40	SFT	17:56	3:16	30	18:26	0:18	(12)	17:56	18:14		446.6	446.6	446.6
116	Reg	SB	44			S041814	4	All-Stop	SFT	18:14	ANA	22:17	4:03	40	22:57			22:17			476.9	476.9	476.9
141	Reg	NB	45	X2	400	N010535	1	Bay Area Ltd	ANA	5:35	SFT	9:00	3:25	30	9:30	0:47	17	9:00	9:47		476.9	953.8	476.9
44	Reg	SB	45			S150947	15	SF-Merced	SFT	9:47	MCD	11:21	1:34	40	12:01	0:41	1	11:21	12:02		161.2	161.2	161.2
53	Reg	SB	45			S141202	14	LA-Merced	MCD	12:02	ANA	14:48	2:46	40	15:28	0:47	7	14:48	15:35		354.3	354.3	354.3
224	Reg	NB	45	Х3	400	N011535	1	Bay Area Ltd	ANA	15:35	SFT	19:00	3:25	30	19:30			19:00			476.9	953.8	476.9
145	Peak O/T	NB	46	7.0	400	N040546	4	All-Stop	ANA	5:46	SFT	9:48	4:02	30	10:18	0:26	(4)	9:48	10:14		476.9	953.8	476.9
49	Reg	SB	46			S041014	4	All-Stop	SFT	10:14	ANA	14:17	4:03	40	14:57	0:29	(11)	14:17	14:46	*	476.9	476.9	476.9
219	Peak O/T	NB	46		400	N041446	4	All-Stop	ANA	14:46	SFT	18:48	4:02	30	19:18	0:26	(4)	18:48	19:14		476.9	953.8	476.9
123	Night	SB	46			S041914	4	All-Stop	SFT	19:14	ANA	23:13	3:59	40	23:53			23:13			476.9	476.9	476.9
146	Reg	NB	47	SX2	400	N020605	2	Express	ANA	6:05	SFT	9:19	3:14	30	9:49	0:49	19	9:19	10:08		446.6	893.2	0
48	Reg	SB	47	<u> </u>		S161008	16	Central Vly. Ltd	SFT	10:08	LAU	13:27	3:19	40	14:07	0:43	3	13:27	14:10		446.6	446.6	0
210	Reg	NB	47			N171410	17	S.Fernando Vly. Ltd	LAU	14:10	SFT	17:26	3:16	30	17:56	0:34	4	17:26	18:00		446.6	446.6	446.6
113	Reg	SB	47	X1	400	S011800	1	Bay Area Ltd	SFT	18:00	ANA	21:25	3:25	40	22:05			21:25			476.9	953.8	476.9
149	Peak O/T	NB	48		400	N140619	14	LA-Merced	ANA	6:19	MCD	9:07	2:48	30	9:37	0:30	0	9:07	9:37		354.3	708.6	354.3
160	Reg	NB	48			N150937	15	SF-Merced	MCD	9:37	SFT	11:11	1:34	40	11:51	0:27	(13)	11:11	11:38	*	161.2	161.2	161.2
59	Reg	SB	48			S161138	16	Central Vly. Ltd	SFT	11:38	LAU	14:57	3:19	40	15:37	0:38	(2)	14:57	15:35		446.6	446.6	0
222	Peak O/T	NB	48			N211535	21	S.Fernando Vly. Ltd	LAU	15:35	SFT	18:57	3:22	30	19:27			18:57			446.6	446.6	446.6
150	Reg	NB	49	Х3	400	N010635	1	Bay Area Ltd	ANA	6:35	SFT	10:00	3:25	30	10:30	0:47	17	10:00	10:47		476.9	953.8	476.9
52	Reg	SB	49			S151047	15	SF-Merced	SFT	10:47	MCD	12:21	1:34	40	13:01	0:41	1	12:21	13:02		161.2	161.2	161.2
61	Reg	SB	49			S141302	14	LA-Merced	MCD	13:02	ANA	15:48	2:46	40	16:28	0:47	7	15:48	16:35		354.3	354.3	354.3
233	Reg	NB	49	X4	400	N011635	1	Bay Area Ltd	ANA	16:35	SFT	20:00	3:25	30	20:30			20:00			476.9	953.8	476.9
153	Peak O/T	NB	50		400	N100642	10	Central Vly. Ltd Ext.	ANA	6:42	SFT	10:27	3:45	30	10:57	0:36	6	10:27	11:03		476.9	953.8	0
55	Reg	SB	50			S171103	17	S.Fernando Vly. Ltd	SFT	11:03	LAU	14:19	3:16	40	14:59	0:44	4	14:19	15:03		446.6	446.6	446.6
217	Peak O/T	NB	50			N191503	19	S.Fernando Vly. Ltd	LAU	15:03	SFT	18:15	3:12	30	18:45	0:32	2	18:15	18:47		446.6	446.6	446.6
119	Reg	SB	50			S151847	15	SF-Merced	SFT	18:47	MCD	20:21	1:34	40	21:01			20:21			161.2	161.2	161.2
154	Peak O/T	NB	51		400	N040646	4	All-Stop	ANA	6:46	SFT	10:48	4:02	30	11:18	0:26	(4)	10:48	11:14		476.9	953.8	476.9
57	Reg	SB	51			S041114	4	All-Stop	SFT	11:14	ANA	15:17	4:03	40	15:57	0:29	(11)	15:17	15:46	*	476.9	476.9	476.9
228	Peak O/T	NB			400	N041546	4	All-Stop	ANA	15:46	SFT	19:48	4:02	30	20:18	0:26	(4)	19:48	20:14		476.9	953.8	476.9
127	Night	SB				S042014	4	All-Stop	SFT	20:14	ANA	0:13	3:59	40	0:53			0:13			476.9	476.9	476.9
155	Reg	NB		SX3	400	N020705	2	Express	ANA	7:05	SFT	10:19	3:14	30	10:49	0:49	19	10:19	11:08		446.6	893.2	0
56	Reg		52			S161108	16	Central Vly. Ltd	SFT	11:08	LAU	14:27	3:19	40	15:07	0:40	0	14:27	15:07		446.6	446.6	0

AFFEI	ADIX A3 E	QUIF	IVIEIVI	CICL	.E3 FII	ASE I BASE	SERVI	CE PLAN (Version 10)														200m	
ID	OvertkScheme	Dir	Set	Sot2	Consist	Train No.	Pattern	Train Type	Orig	OrigTime	Doct	DoctTimo	RunTime	Minl av	Avail	Layover	Excess	DestArr	DestDep	т	TrnMi	SetMi	Wkend Yd
218	Peak O/T	NB	52	3612	COHSIST	N181507	18	Central Vly. Ltd	LAU	15:07	SFT	18:27	3:20	30	18:57	0:43	13	18:27	19:10		446.6	446.6	446.6
122		SB	52			S171910	17	S.Fernando Vly. Ltd	SFT	19:10	LAU	22:26	3:16	40	23:06			22:26			446.6	446.6	446.6
158	Reg	NB	53			N140720	14	LA-Merced	ANA	7:20	MCD	10:07	2:47	30	10:37	0:30	0	10:07	10:37		354.3	354.3	354.3
168	Reg	NB	53			N151037	15	SF-Merced	MCD	10:37	SFT	12:11	1:34	40	12:51	0:30	(13)	12:11	12:38	*	161.2	161.2	161.2
67	Reg Reg	SB	53			S161238	16	Central Vly. Ltd	SFT	12:38	LAU	15:57	3:19	40	16:37	0:27	(2)	15:57	16:35		446.6	446.6	0
231		NB	53		400	N211635	21	S.Fernando Vly. Ltd	LAU	16:35	SFT	19:57	3:22	30	20:27		(Z) 	19:57			446.6	893.2	446.6
159	Peak O/T	NB	54	X4	400	N010735	1	Bay Area Ltd	ANA	7:35	SFT	11:00	3:25	30	11:30	0:47	17	11:00	11:47		476.9	953.8	476.9
60	Reg Reg	SB	54	74	400	S151147	15	SF-Merced	SFT	11:47	MCD	13:21	1:34	40	14:01	0:41	1	13:21	14:02		161.2	161.2	161.2
69		SB	54			S141402	14	LA-Merced	MCD	14:02	ANA	16:48	2:46	40	17:28	0:47	7	16:48	17:35		354.3	354.3	354.3
242	Reg	NB	54	X5	400	N011735	1 4	Bay Area Ltd	ANA	17:35	SFT	21:00	3:25	30	21:30			21:00			476.9	953.8	476.9
163	Reg	NB	55	Λū	400	N040752	4	All-Stop	ANA	7:52	SFT	11:54	4:02	30	12:24	0:20	(10)	11:54	12:14	*	476.9	953.8	476.9
65	Reg	SB	55		400	S041214	4	All-Stop	SFT	12:14	ANA	16:17	4:02	40	16:57	0:29	(11)	16:17	16:46	*	476.9	476.9	476.9
237	Reg	NB	55		400	N041646	4	All-Stop	ANA	16:46	SFT	20:48	4:02	30	21:18	0:26	(4)	20:48	21:14		476.9	953.8	476.9
130	Peak O/T Night	SB	55 55		400	S042114	4	All-Stop	SFT	21:14	ANA	1:13	3:59	40	1:53		(4) 	1:13			476.9	476.9	476.9
166	3	NB	56			N140820	14	LA-Merced	ANA	8:20	MCD	11:08	2:48	30	11:38	0:29	(1)	11:08	11:37		354.3	354.3	354.3
176	Peak O/T	NB	56			N151137	15	SF-Merced	MCD	11:37	SFT	13:11	1:34	40	13:51	0:29	(13)	13:11	13:38	*	161.2	161.2	161.2
75	Reg	SB	56			S161338	16	Central Vly. Ltd	SFT	13:38	LAU	16:57	3:19	40	17:37	0:27	(2)	16:57	17:35		446.6	446.6	0
240	Reg	NB	56			N211735	21	S.Fernando Vly. Ltd	LAU	17:35	SFT	20:57	3:22	30	21:27		(Z) 	20:57			446.6	446.6	446.6
167	Peak O/T	NB	57	X5	400	N010835	1	Bay Area Ltd	ANA	8:35	SFT	12:00	3:25	30	12:30	0:47	17	12:00	12:47		476.9	953.8	476.9
68	Reg Reg	SB	57	Λū	400	S151247	15	SF-Merced	SFT	12:47	MCD	14:21	1:34	40	15:01	0:58	18	14:21	15:19		161.2	161.2	161.2
79	Peak O/T	SB	57			S141519	14	LA-Merced	MCD	15:19	ANA	18:07	2:48	40	18:47	0:38	(12)	18:07	18:35		354.3	354.3	354.3
250		NB	57	X11	400	N011835	14		ANA	18:35	SFT	22:00	3:25		22:30			22:00			476.9	953.8	476.9
134	Reg Peak O/T	NB	61	AII	400	N190503	19	Bay Area Ltd S.Fernando Vly. Ltd	LAU	5:03	SFT	8:15	3:12	30 30	8:45	0:32	2	8:15	8:47		446.6	446.6	446.6
36		SB	61			S150847	15	SF-Merced	SFT	8:47	MCD	10:21	1:34	40	11:01	0:32	1	10:21	11:02		161.2	161.2	161.2
45	Reg	SB	61			S141102	14	LA-Merced	MCD	11:02	ANA	13:48	2:46	40	14:28	0:47	7	13:48	14:35		354.3	354.3	354.3
	Reg	NB		X2	400		14			14:35	SFT	18:00	3:25	30	18:30						476.9	953.8	476.9
215 117	Reg	SB	61 61	Λ2	400	N011435 S171833	17	Bay Area Ltd S.Fernando Vly. Ltd	ANA SFT	18:33	LAU	21:49	3:16	40	22:29	0:33	3	18:00 21:49	18:33		446.6	446.6	446.6
	Reg	NB	62			N180507		•	LAU	5:07	SFT	8:27	3:20		8:57	0:33		8:27	9:00				446.6
135	Peak O/T	SB	62	X1	400	S010900	18	Central Vly. Ltd Bay Area Ltd	SFT	9:00	ANA	12:25	3:25	30 40	13:05	0:55	3 15	12:25	13:20		446.6 476.9	446.6 953.8	476.9
38 206	Reg	NB	62	<u> </u>	400	N141320	14	LA-Merced	ANA	13:20	MCD	16:07	2:47	30	16:37	0:30	0	16:07	16:37		354.3	354.3	354.3
216	Reg	NB	62			N151637	15	SF-Merced	MCD	16:37	SFT	18:11	1:34	40	18:51	0:30	(13)	18:11	18:38		161.2	161.2	161.2
118	Reg	SB	62			S161838	16	Central Vly. Ltd	SFT	18:38	LAU	21:57	3:19	40	22:37		(13)	21:57			446.6	446.6	0
138	Reg	NB	63			N200533	20	•	LAU	5:33	SFT	8:51	3:18	30	9:21	0:17	(13)	8:51	9:08	*	446.6	446.6	446.6
40	Peak O/T	SB	63			S160908	16	Central Vly. Ltd Central Vly. Ltd	SFT	9:08	LAU	12:27	3:19	40	13:07	0:17	3	12:27	13:10		446.6	446.6	0
202	Reg	NB	63			N171310	17	S.Fernando Vly. Ltd	LAU	13:10	SFT	16:26	3:16	30	16:56	0:38	8	16:26	17:04		446.6	446.6	446.6
105	Reg Peak O/T	SB	63		400	S191704	19	S.Fernando Vly. Ltd	SFT	17:04	LAU	20:15	3:11	40	20:55			20:15			446.6	893.2	446.6
		NB	64		400	N210535		S.Fernando Vly. Ltd	LAU		SFT	8:57	3:22	30	9:27	0:36	6	8:57	9:33		446.6	446.6	446.6
139 42	Peak O/T Reg	SB	64			S170933	21 17	S.Fernando Vly. Ltd	SFT	5:35 9:33	LAU	12:49	3:16	40	13:29	0:44	4	12:49	13:33		446.6	446.6	446.6
204		NB	64			N161333	16	Central Vly. Ltd	LAU	13:33	SFT	16:51	3:18	30	17:21	0:44	(13)	16:51	17:08	*	446.6	446.6	0
106	Reg Peak O/T	SB				S181708	18	Central Vly. Ltd	SFT	17:08	LAU	20:34	3:26	40	21:14		(13)	20:34			446.6	446.6	446.6
143	Peak O/T	NB	65			N190603	19	S.Fernando Vly. Ltd	LAU	6:03	SFT	9:15	3:12	30	9:45	0:45	15	9:15	10:00		446.6	446.6	446.6
46		SB	65	X2	400	S011000	19	Bay Area Ltd	SFT	10:00	ANA	13:25	3:25	40	14:05	0:54	14	13:25	14:19		476.9	953.8	476.9
214	Reg	NB	65	Λ2	400	N141419	1/	LA-Merced		14:19	MCD	17:07	2:48			0:30	0	17:07	17:37				354.3
225	Peak O/T	NB	65			N151737	14	SF-Merced	ANA MCD	17:37	SFT	19:11	1:34	30	17:37 19:51			19:11			354.3 161.2	354.3 161.2	161.2
144	Reg Peak O/T	NB	66			N180607	15 18	Central Vly. Ltd	LAU	6:07	SFT	9:27	3:20	40 30	9:57	0:36	6	9:27	10:03		446.6	446.6	446.6
47		SB	66			S171003	17	S.Fernando Vly. Ltd	SFT	10:03	LAU	13:19	3:16	40	13:59	0:44	4	13:19	14:03		446.6	446.6	446.6
209	Reg	NB	66			N161403	16	Central Vly. Ltd	LAU	14:03	SFT	17:21	3:18	30	17:51	0:44	(4)	17:21	17:47		446.6	446.6	0
111	Reg Reg	SB	66			S151747	15	SF-Merced	SFT	17:47	MCD	19:21	1:34	40	20:01	0:41	(<u>4)</u> 1	19:21	20:02		161.2	161.2	161.2
120	Reg	SB	66			S142002	14	LA-Merced	MCD	20:02	ANA	22:48	2:46	40	23:28		<u>'</u>	22:48			354.3	354.3	354.3 YSF
147	Peak O/T	NB	67			N200633	20	Central Vly. Ltd	LAU	6:33	SFT	9:51	3:18	30	10:21	5:38	308	9:51	15:29		446.6	446.6	446.6
90		SB		SX4	400	S021529	20	Express	SFT	15:29	ANA	18:43	3:14	40	19:23	0:52	12	18:43	19:35			893.2	0
	Reg		67	X12			1	•													446.6		
256	Reg	IND	0/	٨١٧	400	N011935		Bay Area Ltd	ANA	19:35	SFT	23:00	3:25	30	23:30			23:00			476.9	953.8	476.9

/ ·		~ 0		0.0-			0	OLI LAN (Version 10)														200m		
ID	OvertkScheme	Dir	Set	Set2	Consist	Train No.	Pattern	Train Type	Orig	OrigTime	Dest	DestTime	RunTime	MinLay	Avail	Layover	Excess	DestArr	DestDep	Т 7	ΓrnMi	SetMi	Wkend \	Yd
148	Peak O/T	NB	68		400	N210635	21	S.Fernando Vly. Ltd	LAU	6:35	SFT	9:57	3:22	30	10:27	0:36	6	9:57	10:33	4	146.6	893.2	446.6	
50	Reg	SB	68			S171033	17	S.Fernando Vly. Ltd	SFT	10:33	LAU	13:49	3:16	40	14:29	0:44	4	13:49	14:33	4	146.6	446.6	446.6	
212	Reg	NB	68			N161433	16	Central Vly. Ltd	LAU	14:33	SFT	17:51	3:18	30	18:21	0:17	(13)	17:51	18:08	4	146.6	446.6	0	
115	Reg	SB	68			S161808	16	Central Vly. Ltd	SFT	18:08	LAU	21:27	3:19	40	22:07			21:27		4	146.6	446.6	0	
152	Peak O/T	NB	69		400	N190703	19	S.Fernando Vly. Ltd	LAU	7:03	SFT	10:15	3:12	30	10:45	0:45	15	10:15	11:00	4	146.6	893.2	446.6	
54	Reg	SB	69	Х3	400	S011100	1	Bay Area Ltd	SFT	11:00	ANA	14:25	3:25	40	15:05	0:54	14	14:25	15:19	4	176.9	953.8	476.9	
223	Reg	NB	69			N141519	14	LA-Merced	ANA	15:19	MCD	18:06	2:47	30	18:36	0:31	1	18:06	18:37	3	354.3	354.3	354.3	
234	Reg	NB	69			N151837	15	SF-Merced	MCD	18:37	SFT	20:11	1:34	40	20:51			20:11			161.2	161.2	161.2	YSF
156	Peak O/T	NB	70			N200733	20	Central Vly. Ltd	LAU	7:33	SFT	10:51	3:18	30	11:21	5:38	308	10:51	16:29	4	146.6	446.6	446.6	
99	Reg	SB	70	SX5	400	S021629	2	Express	SFT	16:29	ANA	19:43	3:14	40	20:23	0:52	12	19:43	20:35	۷	146.6	893.2	0	
259	Reg	NB	70	X13	400	N012035	1	Bay Area Ltd	ANA	20:35	SFT	0:00	3:25	30	0:30			0:00		4	176.9	953.8	476.9	
157	Peak O/T	NB	71			N210735	21	S.Fernando Vly. Ltd	LAU	7:35	SFT	10:57	3:22	30	11:27	0:36	6	10:57	11:33	4	146.6	446.6	446.6	
58	Reg	SB	71			S171133	17	S.Fernando Vly. Ltd	SFT	11:33	LAU	14:49	3:16	40	15:29	0:44	4	14:49	15:33	4	146.6	446.6	446.6	
221	Peak O/T	NB	71			N201533	20	Central Vly. Ltd	LAU	15:33	SFT	18:51	3:18	30	19:21	0:44	14	18:51	19:35	4	146.6	446.6	446.6	
124	Reg	SB	71			S161935	16	Central Vly. Ltd	SFT	19:35	LAU	22:54	3:19	40	23:34			22:54		4	146.6	446.6	0	
161	Reg	NB	72			N160803	16	Central Vly. Ltd	LAU	8:03	SFT	11:21	3:18	30	11:51	0:39	9	11:21	12:00	4	146.6	446.6	0	
62	Reg	SB	72	X4	400	S011200	1	Bay Area Ltd	SFT	12:00	ANA	15:25	3:25	40	16:05	0:54	14	15:25	16:19	4	176.9	953.8	476.9	
232	Reg	NB	72			N141619	14	LA-Merced	ANA	16:19	MCD	19:06	2:47	30	19:36	0:31	1	19:06	19:37	3	354.3	354.3	354.3	
243	Reg	NB	72			N151937	15	SF-Merced	MCD	19:37	SFT	21:11	1:34	40	21:51			21:11			161.2	161.2	161.2	
162	Reg	NB	73			N170810	17	S.Fernando Vly. Ltd	LAU	8:10	SFT	11:26	3:16	30	11:56	0:37	7	11:26	12:03	4	146.6	446.6	446.6	
63	Peak O/T	SB	73			S171203	17	S.Fernando Vly. Ltd	SFT	12:03	LAU	15:19	3:16	40	15:59	0:44	4	15:19	16:03	4	146.6	446.6	446.6	
226	Peak O/T	NB	73			N191603	19	S.Fernando Vly. Ltd	LAU	16:03	SFT	19:15	3:12	30	19:45	0:32	2	19:15	19:47	4	146.6	446.6	446.6	
125	Reg	SB	73			S151947	15	SF-Merced	SFT	19:47	MCD	21:21	1:34	40	22:01			21:21		1	161.2	161.2	161.2	
164	Reg	NB	74			N160833	16	Central Vly. Ltd	LAU	8:33	SFT	11:51	3:18	30	12:21	0:17	(13)	11:51	12:08	* 4	146.6	446.6	0	
64	Reg	SB	74			S161208	16	Central Vly. Ltd	SFT	12:08	LAU	15:27	3:19	40	16:07	0:40	0	15:27	16:07	4	146.6	446.6	0	
227	Peak O/T	NB	74			N181607	18	Central Vly. Ltd	LAU	16:07	SFT	19:27	3:20	30	19:57	0:33	3	19:27	20:00	4	146.6	446.6	446.6	
126	Reg	SB	74	Х3	400	S012000	1	Bay Area Ltd	SFT	20:00	ANA	23:25	3:25	40	0:05			23:25		4	176.9	953.8	476.9	
165	Reg	NB	75			N170840	17	S.Fernando Vly. Ltd	LAU	8:40	SFT	11:56	3:16	30	12:26	0:37	7	11:56	12:33	4	146.6	446.6	446.6	
66	Reg	SB	75			S171233	17	S.Fernando Vly. Ltd	SFT	12:33	LAU	15:49	3:16	40	16:29	0:44	4	15:49	16:33	4	146.6	446.6	446.6	
230	Peak O/T	NB	75			N201633	20	Central Vly. Ltd	LAU	16:33	SFT	19:51	3:18	30	20:21			19:51			146.6	446.6	446.6	
1	Night	SB	M1			S140519	14	LA-Merced	MCD	5:19	ANA	8:01	2:42	40	8:41	0:51	11	8:01	8:52	3	354.3	354.3	354.3	
171	Reg	NB	M1			N040852	4	All-Stop	ANA	8:52	SFT	12:54	4:02	30	13:24	0:20	(10)	12:54	13:14	* 4	176.9	476.9	476.9	
73	Reg	SB	M1			S041314	4	All-Stop	SFT	13:14	ANA	17:17	4:03	40	17:57	0:35	(5)	17:17	17:52		176.9	476.9	476.9	
01190	Reg	NB	M1			N041752	4	All-Stop	ANA	17:52	SFT	21:54	4:02	30	22:24			21:54			176.9	476.9	476.9	
4	Peak O/T	SB	M2		400	S140619	14	LA-Merced	MCD	6:19	ANA	9:07	2:48	40	9:47	0:45	5	9:07	9:52		354.3	708.6	354.3	
179	Reg	NB	M2			N040952	4	All-Stop	ANA	9:52	SFT	13:54	4:02	30	14:24	0:20	(10)	13:54	14:14		176.9	476.9	476.9	
81	Reg	SB	M2			S041414	4	All-Stop	SFT	14:14	ANA	18:17	4:03	40	18:57	0:35	(5)	18:17	18:52	4	176.9	476.9	476.9	
253	Night		M2			N041852	4	All-Stop	ANA	18:52	SFT	22:51	3:59	30	23:21			22:51			176.9	476.9	476.9	
131	Reg		М3			N150537	15	SF-Merced	MCD	5:37	SFT	7:11	1:34	40	7:51	0:52	12	7:11	8:03		161.2	161.2	161.2	
31	Reg	SB	М3			S170803	17	S.Fernando Vly. Ltd	SFT	8:03	LAU	11:19	3:16	40	11:59	0:44	4	11:19	12:03		146.6	446.6	446.6	
193	Reg		М3			N161203	16	Central Vly. Ltd	LAU	12:03	SFT	15:21	3:18	30	15:51	0:39	9	15:21	16:00		146.6	446.6	0	
94	Reg		М3	X13	400	S011600	1	Bay Area Ltd	SFT	16:00	ANA	19:25	3:25	40	20:05	0:55	15	19:25	20:20		176.9	953.8	476.9	
258	Reg		М3			N142020	14	LA-Merced	ANA	20:20	MCD	23:07	2:47	30	23:37			23:07			354.3	354.3	354.3	
133	Reg		M4			N150637	15	SF-Merced	MCD	6:37	SFT	8:11	1:34	40	8:51	0:27	(13)	8:11	8:38		161.2	161.2	161.2	
35	Reg		M4			S160838	16	Central Vly. Ltd	SFT	8:38	LAU	11:57	3:19	40	12:37	0:43	3	11:57	12:40		146.6	446.6	0	
197	Reg		M4			N171240	17	S.Fernando Vly. Ltd	LAU	12:40	SFT	15:56	3:16	30	16:26	0:37	7	15:56	16:33		146.6	446.6	446.6	
100	Peak O/T		M4		400	S211633	21	S.Fernando Vly. Ltd	SFT	16:33	LAU	19:51	3:18	40	20:31			19:51			146.6	893.2	446.6	
13	Peak O/T	SB				S140719	14	LA-Merced	MCD	7:19	ANA	10:07	2:48	40	10:47	0:45	5	10:07	10:52		354.3	354.3	354.3	
187	Reg	NB				N041052	4	All-Stop	ANA	10:52	SFT	14:54	4:02	30	15:24	0:20	(10)	14:54	15:14		176.9	476.9	476.9	
89	Peak O/T	SB			400	S041514	4	All-Stop	SFT	15:14	ANA	19:19	4:05	40	19:59			19:19			176.9	953.8	476.9	
142	Reg	NB				N150737	15	SF-Merced	MCD	7:37	SFT	9:11	1:34	40	9:51	0:27	(13)	9:11	9:38		161.2	161.2	161.2	
43	Reg	SB	M6			S160938	16	Central Vly. Ltd	SFT	9:38	LAU	12:57	3:19	40	13:37	0:43	3	12:57	13:40	4	146.6	446.6	0	

																				200m	
OvertkScheme	Dir	Set	Set2	Consist	Train No.	Pattern	Train Type	Orig	OrigTime	Dest	DestTime	RunTime	MinLay	Avail	Layover	Excess	DestArr	DestDep	T TrnMi	SetMi	Wkend Yd
Reg	NB	M6			N171340	17	S.Fernando Vly. Ltd	LAU	13:40	SFT	16:56	3:16	30	17:26	0:37	7	16:56	17:33	446.6	446.6	446.6
Peak O/T	SB	M6			S211733	21	S.Fernando Vly. Ltd	SFT	17:33	LAU	20:51	3:18	40	21:31			20:51		446.6	446.6	446.6
													*Additio	nal 200m	trainsets ava	ailable for th	ese equip	ment turns ◀			
																2,037			106211	140405	83760
																				<u>Weekday</u>	Weekend
																			Days/yr	250	115
	Reg	Reg NB Peak O/T SB	Reg NB M6 Peak O/T SB M6	Reg NB M6 Peak O/T SB M6	Peak O/T SB M6	Reg NB M6 N171340 Peak O/T SB M6 S211733	Reg NB M6 N171340 17 Peak O/T SB M6 S211733 21	Reg NB M6 N171340 17 S.Fernando Vly. Ltd Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd	RegNBM6N17134017S.Fernando Vly. LtdLAUPeak O/TSBM6S21173321S.Fernando Vly. LtdSFT	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 3:16 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51 3:18	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 3:16 30 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51 3:18 40 *Addition	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 3:16 30 17:26 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51 3:18 40 21:31 *Additional 200m	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 3:16 30 17:26 0:37 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51 3:18 40 21:31 *Additional 200m trainsets ave	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 3:16 30 17:26 0:37 7 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51 3:18 40 21:31 *Additional 200m trainsets available for the	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 3:16 30 17:26 0:37 7 16:56 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51 3:18 40 21:31 20:51 *Additional 200m trainsets available for these equip	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 3:16 30 17:26 0:37 7 16:56 17:33 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51 3:18 40 21:31 20:51 *Additional 200m trainsets available for these equipment turns	Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 3:16 30 17:26 0:37 7 16:56 17:33 446.6 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51 3:18 40 21:31 20:51 446.6 *Additional 200m trainsets available for these equipment turns	OvertkScheme Dir Set Set2 Consist Train No. Pattern Train Type Orig OrigTime Dest Dest Time RunTime MinLay Avail Layover Excess DestArr DestDep T TrnMi SetMi Reg NB M6 N171340 17 S.Fernando Vly. Ltd LAU 13:40 SFT 16:56 3:16 30 17:26 0:37 7 16:56 17:33 446.6 446.6 Peak O/T SB M6 S211733 21 S.Fernando Vly. Ltd SFT 17:33 LAU 20:51 3:18 40 21:31 20:51 446.6 446.6 *Additional 200m trainsets available for these equipment turns 4 2,037 106211 140405 Weekday

pb

Ann miles 35101 9632 Ann miles **44,734**

Phase I Service Plan, R0

[B] – Variation, with 1.0-3.5% Recovery Time Allowance

Appendix B presents the characteristics of a variation of the California High-Speed Train (HST) Phase 1 Service Plan, which assumes a lower and more aggressive allowance for schedule pad or recovery time, consistent with the intent of the HST system to operate at a very high level of precision. In this variation of the service plan, the express services operating between San Francisco and Los Angeles with one intermediate stop at San Jose would have a scheduled run time of 2 hours and 40 minutes, with a recovery time allowance of one percent. All other trains in this variation of the plan would have a recovery time allowance of three and one half percent.

In this versiosn of the service plan, the train stopping patterns, hours of service, and service frequencies were kept essentially the same as that of the base service plan described in Appendix A. Certain changes were made to the assumptions and general principles to allow for the marginally faster travel times estimated for the "express" trains:

- Recovery time incorporated in the end-to-end train running times was reduced from 7
 percent to 1 percent for "express" trains and to 3.5 percent for all other train types
- The minimum headway between trains following each other past a given point was kept at 3 minutes except for sections north of San Jose and near each terminal location, which includes San Francisco-Transbay, Los Angeles Union Station, Anaheim, and Merced stations, because it was assumed that the rate in which trains would arrive and depart these locations could support a minimum headway of no less than 2 minutes.
- In addition to the standard 1 to 3.5 percent recovery time applied to all trains, additional recovery was added to certain trains to adjust the running time so as to avoid the overtakes and to maintain the minimum spacing between trains. This is described in more detail in the New Service Sequence section of this memorandum.
- To further reduce the estimated travel time, station dwell times at intermediate stops were reduced from two minutes to 90 seconds at San Jose and Los Angeles Union Station, and from 90 seconds to 75 seconds at all other intermediate stops.
- While the original baseline timetable presented clock face scheduling, the reduction of the amount of recovery time in this iteration resulted in departure times that do not allow for maintaining the clock face structure as long as the stopping patterns of each service type are kept the same as in the baseline timetable.

This variation of the Phase 1 service plan for the initial operating segment between Anaheim, Los Angeles and San Francisco was composed of the following train types and service patterns:

- 1. San Francisco-Los Angeles-Anaheim "Express" service (Pattern #1)
 - Clockface departure on the hour southbound from San Francisco between 5:00 AM and 9:00 PM
 - Clockface hourly departures northbound from Anaheim at 35 minutes past the hour, and departures from Los Angeles at the "top of the hour".
 - During the peak period, northbound departures at Los Angeles were changed to 59 minutes past the hour to create time slots for local and limited-stop trains in order to minimize the overtakes.



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- 2. San Francisco-Los Angeles-Anaheim "Express" service (Pattern #2)
 - Southbound trains depart San Francisco at 5:30 AM, 6:30 AM, 7:30 AM, 3:30 PM, 4:30 PM, and 5:30 PM.
 - Northbound trains depart Anaheim at 5:05 AM, 6:05 AM, 7:05 AM, 3:05 PM, 4:05 PM, and 6:05 PM so that the trains can depart Los Angeles at the "bottom" (:30) of the hour.
- 3. San Fernando Valley Off-peak Limited Limited stop service between San Francisco and Los Angeles stopping at stations in the San Fernando Valley and the Santa Clara/Silicon Valley area, while generally bypassing Central Valley stations (Pattern #17)
 - 30-minute headways in both direction for travel between 8:00 AM and 3:00 PM, and again between 6:00 PM and 9:00 PM.
 - Southbound departure from San Francisco at :03 and :33 of the hour; northbound departure from Los Angeles at :10 and :40 of the hour.
 - No overtakes occur en route
 - Two northbound trips, departing Los Angeles at 8:10 AM and 9:10 AM, provide service to the Milbrae station.
 - Northbound trains departing Los Angeles at :40 of the hour reduce speed between Palmdale and Bakersfield to increase travel time by 2 minutes in order to minimize the dwell time of local trains overtaken at Bakersfield.
 - Reduced service to 60-minute headways after 7:00 PM
- 4. San Fernando Valley Peak Limited Peak-only Limited stop service between San Francisco and Los Angeles stopping at stations in the San Fernando Valley and the Santa Clara/Silicon Valley area, while generally bypassing Central Valley stations (Patterns #19 and 21).
 - Two trains per hour per direction with combined 28 to 32 minute headways during the peak period.
 - Southbound departures from San Francisco at :03 of the hour (Pattern #19) and :33 of the hour (Pattern #21); Northbound departures from Los Angeles at :03 of the hour (Pattern #19) and :35 of the hour (Pattern #21)
 - No overtakes occur en route
- Central Valley Off-peak Limited Limited stop service between San Francisco and Los Angeles stopping at all stations north of Bakersfield while skipping all San Fernando Valley stations (Pattern #16).
 - 30-minute headways in both directions for travel between 8:00 AM and 3:00 PM, and again between 6:00 PM and 9:00 PM.
 - Southbound departure from San Francisco at :08 and :38 of the hour; northbound departure from Los Angeles at :03 and :33 of the hours
 - No overtakes occur en route



Phase I Service Plan, R0

- Southbound trains departing San Francisco at :08 of the hour reduce speed between Bakersfield and Los Angeles to increase travel time by 5 to 10 minutes in order to avoid an overtake.
- Reduced service to 60-minute headways after 7:00 PM
- Central Valley Peak Limited Limited stop service between San Francisco and Los Angeles stopping at all stations in the Central Valley and the north while making limited stops in the San Fernando Valley (Patterns #10, 18, and 20)
 - Two trains per hour per direction with 28 to 32 minute headways during peak period
 - Southbound departure from San Francisco at :08 of the hour (Pattern #10/18) and :39 of the hour (Pattern #20); Northbound departure from Los Angeles at :06 of the hour (Pattern #10) or :07 of the hour (Pattern #19) and :33 of the hour (Pattern #21)
 - Two roundtrips in each direction are extended to Anaheim
 - Southbound trains departing San Francisco at :08 of the hour are overtaken by Express trains (Pattern #2) at Fresno
 - Northbound trains departing Los Angeles at :06 or :07 of the hour are overtaken by Express trains (Pattern #2) at Fresno
 - Some southbound trains reduce speed between Bakersfield and Los Angeles in order to avoid an overtake.
- 7. Local service, making all stops between San Francisco and Anaheim (Pattern #4)
 - All day, hourly service with semi-clockface schedule.
 - Southbound departure from San Francisco at :14 of the hour during peak period, :15 of the hour during off-peak period; northbound departure from Anaheim at :46 of the hour during peak period, :40 of the hour during off-peak period (departure at Los Angeles at :10 and :06 of the hour, respectively)
 - During the peak period, southbound trains are overtaken twice by Express trains (Pattern #2) at Gilroy and by San Fernando Valley Limited trains at Fresno; while northbound trains are overtaken once by Express trains (Pattern #2) at Bakersfield
 - During off-peak period, both southbound and northbound trains are overtaken once by San Fernando Valley Limited trains at Bakersfield
 - All trains during mid-day period are overtaken once by San Fernando Valley Limited trains at Bakersfield
- 8. Merced-Los Angeles Local (Pattern #14)
 - All day, hourly service with semi-clockface schedule
 - Southbound departure from Merced at :05 of the hour throughout the day; northbound departure from Anaheim at :17 of the hour during peak period, :12 of the hour during offpeak period (departure at Los Angeles at :41 and :36 of the hour, respectively)



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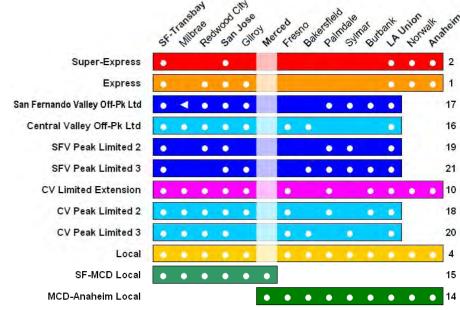
California High-Speed Train Project

Phase I Service Plan, R0

- During peak period, southbound trains have overtakes by Express (Pattern #1) and San Fernando Valley Limited trains at Fresno and Express trains (Pattern #2) at Bakersfield while northbound trains are overtaken once by Express trains (Pattern #1) at Bakersfield
- During off-peak periods, all trains have overtakes: (by San Fernando Valley Limited and Express trains (Pattern #1); northbound at Bakersfield and southbound at Fresno)
- Southbound trains arrive at Los Angeles Union Station before the following Central Valley Limited trains
- 9. San Francisco-Merced local service (Pattern #15)
 - All-day, hourly service with semi-clockface schedule
 - Southbound departure from San Francisco at :47 of the hour throughout the day; northbound departure from Merced at :34 of the hour during peak period and :37 of the hour during off-peak period
 - No overtakes occur en route

Stations served by each stopping pattern are illustrated in the chart provided below:

Stopping Pattern in Revised (with reduced recovery time) Phase 1 Service Plan



Note: Trains make a stop at station with white circle; ◀: Special stop (northbound only).



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This schedule variation provides a total of 260 revenue trips, the same number of trips assumed in the base plan. Since both service plans follow the same planning principles, the breakdown of the levels of service in each time period of the day is identical between them. This is illustrated in the revised timetable and time-distance chart presented in the Appendices B1 and B2.

As a result of reducing the recovery and station dwell times, it is estimated that Express trains (Pattern #2) can complete the travel between San Francisco and Los Angeles within 2 hours and 40 minutes. This reduction in the recovery and dwell times also improves the travel time of most of the projected 260 revenue trips in this service plan.

A hypothetical daily timetable for this service plan is presented in Appendix B1. This same schedule is presented in stringline (time-distance) diagram format in Appendix B2. Equipment cycles and the number of required trainsets will be the same in this scenario as in the base plan documented in Appendix A3, so a separate analysis of equipment cycles is not shown for the service plan variation.



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Phase I Service Plan, R0

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B1. Hypothetical Timetable



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CALIFORNIA HIGH-SPEED RAIL

PHASE 1 TIMETABLE VARIATION SERVICE PLAN

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Mary	Service	rice Type →	Merced Merced	Area	Valley	Valley	All-Stop		Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop		Valley	Valley	Merced	Merced	Area	Valley	alley All	l-Stop		Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley	Merced Merced
Column C			Local Local	Limited	Limited	Limited	Local	Express	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Express	Limited	Limited	Local	Local	Limited	Limited L	mited L	.ocal E	Express	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited	Local Local
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Fig. Part	446.6 LAU L.A. Union Sta.	a. Arr	7:16 8:31	7:53	8:07	8:36	8:49	8:10	8:44	8:51		9:31	8:53	9:07	9:38	9:49	9:10	9:44	9:51		10:31	9:53	10:07	0:36 10	0:49 1	10:10	10:44	10:51		11:22	10:53	11:11	11:25	11:46	11:41	11:49	12:22
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Station Stat	D Ti	Direction → Trainset → Train No. →	NB NB M3 M4 N150534 N150634	NB 41	NB 61 N190502	NB 62 N180507	NB 42	NB 43	NB 63 N200533	NB 64 N210535	NB 44 N140517	NB 45	NB M6 N150734	NB 65 N190602	NB 66 N180607	NB 46 N040546	NB 47 N020605	NB 67 N200633	NB 68 N210635	NB 48 N140617	NB 44 N150834	NB 49	NB 69 N190702	NB 1 50 100642 N0	NB 51 040646 N	NB 52 N020705	NB 70 N200733	NB 71 N210735	NB 53 N140717	NB 54	NB 48 N150937	NB 72 N160803	NB 55 N040742	NB 73	NB 74 N160833	NB 56 N140812	NB NB 75 57
Station Dig Station Dig Station Dig Station Dig Station Dig Di	D Ti	Direction → Trainset → Train No. →	NB NB M3 M4 N150534 N150634 15 15	NB 41 N010435	NB 61 N190502 19	NB 62 N180507	NB 42	NB 43	NB 63 N200533 20	NB 64 N210535 21	NB 44 N140517 14	NB 45 N010535	NB M6 N150734 15	NB 65 N190602	NB 66 N180607	NB 46 N040546	NB 47 N020605	NB 67 N200633 20	NB 68 N210635 21	NB 48 N140617	NB 44 N150834	NB 49 N010635	NB 69 N190702 N	NB 1 50 100642 N0	NB 51 040646 N	NB 52 N020705 2	NB 70 N200733 20	NB 71 N210735 21	NB 53 N140717 14	NB 54 N010735	NB 48 N150937	NB 72 N160803 16	NB 55 N040742 4	NB 73 N170810	NB 74 N160833	NB 56 N140812 14	NB NB 57 57 N010835 17 1
0.0 NA Anahelim Dep 4.35	D Ti <u>Northbound</u>	Direction → Trainset → Train No. → Pattern →	NB NB M3 M4 N150534 N150634 15 15 S.F S.F	NB 41 N010435 1 Bay	NB 61 N190502 19 S.Fern'do	NB 62 N180507 18 Central	NB 42 N040446 4	NB 43	NB 63 N200533 20 Central	NB 64 N210535 21 S.Fern'do	NB 44 N140517 14 L.A	NB 45 N010535 1 Bay	NB M6 N150734 15 S.F	NB 65 N190602 19 S.Fern'do	NB 66 N180607 18 Central	NB 46 N040546 4	NB 47 N020605	NB 67 N200633 20 Central	NB 68 N210635 21 S.Fern'do	NB 48 N140617 14 L.A	NB 44 N150834 15 S.F	NB 49 N010635 1 Bay	NB 69 N190702 N 19 S.Fern'do (NB 1 50 1 100642 NO 10 entral	NB 51 040646 N	NB 52 N020705 2	NB 70 N200733 20 Central	NB 71 N210735 21 S.Fern'do	NB 53 N140717 14 L.A	NB 54 N010735 1 Bay	NB 48 N150937 15 S.F	NB 72 N160803 16 Central	NB 55 N040742 4	NB 73 N170810 17 S.Fern'do	NB 74 N160833 16 Central	NB 56 N140812 14 L.A S	NB NB 75 57 N170840 N010835 17 1 S.Fern'do Bay
15.0 NSF Norwalk Dep 1 4.56 5.16 5.06 5.05 5.05 5.05 5.05 5.05 5.05 5.0	D Ti <u>Northbound</u>	Direction → Trainset → Train No. → Pattern →	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area	NB 61 N190502 19 S.Fern'do Valley	NB 62 N180507 18 Central Valley	NB 42 N040446 4 All-Stop	NB 43 N020505 2	NB 63 N200533 20 Central Valley	NB 64 N210535 21 S.Fern'do Valley	NB 44 N140517 14 L.A	NB 45 N010535 1 Bay Area	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley	NB 66 N180607 18 Central Valley	NB 46 N040546 4 All-Stop	NB 47 N020605 2	NB 67 N200633 20 Central Valley	NB 68 N210635 21 S.Fern'do Valley	NB 48 N140617 14 L.A Merced	NB 44 N150834 I 5 S.F Merced	NB 49 N010635 1 Bay S	NB 69 N190702 N 19 S.Fern'do (NB 1 50 :: 100642 NO 10 entral /alley All	NB 51 040646 N 4	NB 52 N020705 2	NB 70 N200733 20 Central Valley	NB 71 N210735 21 S.Fern'do Valley	NB 53 N140717 14 L.A Merced	NB 54 N010735 1 Bay Area	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley	NB 55 N040742 4 All-Stop	NB 73 N170810 17 S.Fern'do Valley	NB 74 N160833 16 Central Valley	NB 56 N140812 14 L.A S Merced	NB 75 57 N170840 N010835 17 1 Bay Valley Area
3.1 AU LA Line State	Ti <u>Northbound</u> Servio <u>Mile <u>Station</u></u>	Direction → Trainset → Train No. → Pattern →	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited	NB 61 N190502 19 S.Fern'do Valley	NB 62 N180507 18 Central Valley	NB 42 N040446 4 All-Stop Local	NB 43 N020505 2 Express	NB 63 N200533 20 Central Valley	NB 64 N210535 21 S.Fern'do Valley	NB 44 N140517 14 L.A Merced Local	NB 45 N010535 1 Bay Area Limited	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley	NB 66 N180607 18 Central Valley	NB 46 N040546 4 All-Stop Local	NB 47 N020605 2 Express	NB 67 N200633 20 Central Valley	NB 68 N210635 21 S.Fern'do Valley	NB 48 N140617 14 L.A Merced Local	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited	NB 69 N190702 N 19 S.Fern'do Valley Limited L	NB 1 50 2 100642 NO 10 entral /alley All mited L	NB 51 140646 N 4 1-Stop ocal E	NB 52 N020705 2	NB 70 N200733 20 Central Valley	NB 71 N210735 21 S.Fern'do Valley	NB 53 N140717 14 L.A Merced Local	NB 54 N010735 1 Bay Area Limited	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley	NB 55 N040742 4 All-Stop Local	NB 73 N170810 17 S.Fern'do Valley	NB 74 N160833 16 Central Valley	NB 56 N140812 14 L.A S Merced Local	NB 75 57 N010835 17 1 1 .Fern'do Bay Valley Area Limited
## A06 BUR Burbank Dep 1.500 S.00 S.00 S.00 S.00 S.00 S.00 S.00	Northbound Service Mile Station 0.0 ANA Anaheim	Direction → Trainset → Frain No. → Pattern →	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited	NB 61 N190502 19 S.Fern'do Valley	NB 62 N180507 18 Central Valley	NB 42 N040446 4 All-Stop Local	NB 43 N020505 2 Express	NB 63 N200533 20 Central Valley	NB 64 N210535 21 S.Fern'do Valley	NB 44 N140517 14 L.A Merced Local	NB 45 N010535 1 Bay Area Limited	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley	NB 66 N180607 18 Central Valley	NB 46 N040546 4 All-Stop Local	NB 47 N020605 2 Express	NB 67 N200633 20 Central Valley	NB 68 N210635 21 S.Fern'do Valley	NB 48 N140617 14 L.A Merced Local	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited	NB 69 N190702 N 19 S.Fern'do (Valley Limited L	NB	NB 51 140646 N 4 1-Stop ocal E	NB 52 N020705 2 Express 7:05	NB 70 N200733 20 Central Valley	NB 71 N210735 21 S.Fern'do Valley	NB 53 N140717 14 L.A Merced Local	NB 54 N010735 1 Bay Area Limited 7:35	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley	NB 55 N040742 4 All-Stop Local	NB 73 N170810 17 S.Fern'do Valley	NB 74 N160833 16 Central Valley	NB 56 N140812 14 L.A S Merced Local 8:12	NB 75 57 N170840 N010835 17 1 Bay Valley Area Limited Limited 8:35
## Star Burbank Dep Star Star Burbank Dep Star Star Basel Dep Star Star Basel Dep Star Star Basel Dep Dep Star Basel Dep D	Northbound Service Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk	Direction → Trainset → Train No. → Pattern → ice Type → Dep Dep	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45	NB 61 N190502 19 S.Fern'do Valley	NB 62 N180507 18 Central Valley	NB 42 N040446 4 All-Stop Local 4:46 4:56	NB 43 N020505 2 Express 5:05 5:15	NB 63 N200533 20 Central Valley	NB 64 N210535 21 S.Fern'do Valley	NB 44 N140517 14 L.A Merced Local 5:17 5:27	NB 45 N010535 1 Bay Area Limited 5:35 5:45	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley	NB 66 N180607 18 Central Valley	NB 46 N040546 4 All-Stop Local 5:46 5:56	NB 47 N020605 2 Express 6:05 6:15	NB 67 N200633 20 Central Valley	NB 68 N210635 21 S.Fern'do Valley	NB 48 N140617 14 L.A Merced Local 6:17 6:27	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45	NB 69 N190702 N 19 S.Fern'do (Valley Limited L	NB 50 100642 N0 10 entral /alley All mited L 65:42 66:52 66	NB 51 140646 N 4 1-Stop ocal E	NB 52 1020705 2 Express 7:05 7:15	NB 70 N200733 20 Central Valley	NB 71 N210735 21 S.Fern'do Valley	NB 53 N140717 14 L.A Merced Local 7:17 7:27	NB 54 N010735 1 Bay Area Limited 7:35 7:45	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley	NB 55 N040742 4 All-Stop Local 7:42 7:52	NB 73 N170810 17 S.Fern'do Valley	NB 74 N160833 16 Central Valley	NB 56 N140812 14 L.A SMerced Local 8:12 8:22	NB 75 57 N010835 17 1
Strict S	Northbound Service Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk	Direction → Trainset → Train No. → Pattern → icce Type → Dep Dep Dep A. Arr	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N190502 19 S.Fern'do Valley Limited	NB 62 N180507 18 Central Valley Limited	NB 42 N040446 4 All-Stop Local 4:46 4:56 5:08	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited	NB 64 N210535 21 S.Fern'do Valley Limited	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley Limited	NB 66 N180607 18 Central Valley Limited	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited	NB 68 N210635 21 S.Fern'do Valley Limited	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56	NB 69 N190702 N 19 S.Fern'do (Valley Limited L	NB 150 100642 NO	NB 51 140646 N 4 -Stop ocal E 5:46 5:56 7:08	NB 52 1020705 2 Express 7:05 7:15 7:26	NB 70 N200733 20 Central Valley Limited	NB 71 N210735 21 S.Fern'do Valley Limited	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley Limited	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04	NB 73 N170810 17 S.Fern'do Valley Limited	NB 74 N160833 16 Central Valley Limited	NB 56 N140812 14 L.A SMerced Local 8:12 8:22 8:34	NB 75 57 N010835 17 1 .Fern'do Valley Limited Limited 8:35 8:45 8:56
Solution Part Par	Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union Sta.	Direction → Trainset → Train No. → Patterm → ice Type → Dep Dep A. Arr Dep	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N190502 19 S.Fern'do Valley Limited	NB 62 N180507 18 Central Valley Limited	NB 42 N040446 4 All-Stop Local 4:46 4:56 5:08 5:10	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited	NB 64 N210535 21 S.Fern'do Valley Limited	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley Limited	NB 66 N180607 18 Central Valley Limited	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited	NB 68 N210635 21 S.Fern'do Valley Limited	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56	NB 69 N190702 N 19 S.Fern'do Valley Limited L	NB	NB 51 140646 N 4 1-Stop ocal E 5:46 5:56 7:08 7:10	NB 52 1020705 2 Express 7:05 7:15 7:26	NB 70 N200733 20 Central Valley Limited	NB 71 N210735 21 S.Fern'do Valley Limited	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley Limited	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06	NB 73 N170810 17 S.Fern'do Valley Limited	NB 74 N160833 16 Central Valley Limited	NB 56 N140812 14 L.A S Merced Local 8:12 8:22 8:34 8:36	NB 75 57 N010835 17 1 Bay Valley Limited Limited 8:35 8:45 8:56 8:40 9:00
174.1 BFD Bakersfield Arr Dep Dep Dep Dep S:34 6:34 6:46 6:54 5:4	Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union Sta.	Direction → Trainset → Train No. → Pattern → idee Type → Dep Dep A. Arr Dep Dep	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N190502 19 S.Fern'do Valley Limited	NB 62 N180507 18 Central Valley Limited 5:07 5:16	NB 42 N040446 4 All-Stop Local 4:46 4:56 5:08 5:10 5:18	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:44	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley Limited	NB 66 N180607 18 Central Valley Limited 6:07 6:16	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do Valley Limited L	NB	NB 51 140646 N 4	NB 52 1020705 2 Express 7:05 7:15 7:26 7:30	NB 70 N200733 20 Central Valley Limited	NB 71 N210735 21 S.Ferrido Valley Limited 7:35 7:44	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41 7:50	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley Limited	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06 8:14	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:19	NB 74 N160833 16 Central Valley Limited	NB 56 N140812 14 L.A S Merced Local 8:12 8:22 8:34 8:36 8:45	NB 75 57 N170840 17 1 1.Fern'do Bay Valley Area Limited Limited 8:35 8:45 8:40 9:00 8:49
Dep Fresho Arr Triangle	Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Union Sta. 40.6 BUR Burbank 51.1 SYL Sylmar	Direction → Trainset → Train No. → Pattern → ice Type → Dep Dep Dep Dep Dep Dep Dep Dep Dep	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N190502 19 S.Fern'do Valley Limited	NB 62 N180507 18 Central Valley Limited 5:07 5:16	NB 42 N040446 4 All-Stop Local 4:46 4:56 5:08 5:10 5:18	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:44	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley Limited	NB 66 N180607 18 Central Valley Limited 6:07 6:16	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do Valley Limited L	NB	NB 51 140646 N 4	NB 52 1020705 2 Express 7:05 7:15 7:26 7:30	NB 70 N200733 20 Central Valley Limited	NB 71 N210735 21 S.Ferrido Valley Limited 7:35 7:44	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41 7:50	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley Limited	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06 8:14	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:19	NB 74 N160833 16 Central Valley Limited	NB 56 N140812 14 L.A S Merced Local 8:12 8:22 8:34 8:36 8:45	NB 75 57 N170840 17 1 1.Fern'do Bay Valley Area Limited Limited 8:35 8:45 8:40 9:00 8:49
285.4 FNO Fresno Arr Dep	Northbound Service	Direction → Trainset → Train No. → Pattern → idee Type → Dep Dep Dep A. Arr Dep Dep Dep Arr	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N1902 199 S.Fern'do Valley Limited 5:02	NB 62 M180507 18 Central Valley Limited 5:07 5:16	NB 42 N040446 4 All-Stop Local 4:46 4:56 5:08 5:10 5:18 5:19	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited 5:33 5:46	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:44 5:53	NB 44 N14017 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50 6:20	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley Limited 6:02 6:15	NB 66 N18067 1807 1807 1807 1807 1807 1807 1807 180	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18 6:19 6:28	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited 6:33 6:46	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44 6:53	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50 6:59 7:20	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do Valley Limited L	NB 150 100 1	NB 51 440646 N 4 4	NB 52 1020705 2 Express 7:05 7:15 7:26 7:30	NB 70 N200733 20 Central : Valley Limited 7:33 7:46	NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:44 7:53	NB 53 N140717 14 LA Merced Local 7:17 7:27 7:39 7:41 7:50 7:59	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley Limited	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06 8:14 8:15 8:24	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:29	NB 74 N160833 16 Central Valley Limited	NB 56 N140812 14 LA 5 Merced Local 8:12 8:22 8:34 8:36 8:45 8:54 9:14	NB 75 57 N010835 17 1 .Fern'do Valley Area Limited
Dep G:45 7:03 7:13 7:33 7:33 7:34 First Fir	Northbound Service	Direction → Trainset → Train No. → Patterm → ice Type → Dep Dep Dep Dep Dep Dep Dep Dep Dep De	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N1902 199 S.Fern'do Valley Limited 5:02	NB 62 N180507 18 Central Valley Limited 5:07 5:16	NB 42 N040446 4 All-Stop Local 4:46 4:56 5:08 5:10 5:18 5:19	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited 5:33 5:46	NB 64 N210532 21 S.Fern'do Valley Limited 5:35 5:44 5:53 6:14	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50 5:59 6:20 6:50	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley Limited 6:02 6:15	NB 66 N180607 18 Central Valley Limited 6:07 6:16 6:40	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18 6:19 6:28 7:19	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited 6:33 6:46	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44 6:53 7:14	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50 6:59 7:20 7:50	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do Valley Limited L	NB 1 50 100642 NO 100 NO NO NO NO NO NO NO	NB 51 400646 N 4 4	NB 52 1020705 2 Express 7:05 7:15 7:26 7:30	NB 70 N200733 20 Central Valley Limited 7:33 7:46	NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:44 7:53 8:14	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41 7:50 7:59 8:20 8:50	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley Limited	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06 8:14 8:15 8:24 9:15	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:29	NB 74 N160833 16 Central Valley Limited	NB 56 N140812 14 LA 5 Merced Local 8:12 8:22 8:34 8:36 8:45 8:54 9:14 9:47	NB 75 57 N010835 17 1 .Fern'do Valley Area Limited
354.4 MCD Merced Arr Dep 5:34 6:34	Northbound Service	Direction → Trainset → Trainset → Frain No. → Pattern → Dep Dep A. Arr Dep Dep Arr Dep Arr Dep	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N1902 199 S.Fern'do Valley Limited 5:02	NB 62 N180507 18 Central Valley Limited 5:07 5:16	NB 42 N040446 4 All-Stop Local 4:46 4:56 5:08 5:10 5:18 5:19	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited 5:33 5:46	NB 64 N210532 21 S.Fern'do Valley Limited 5:35 5:44 5:53 6:14	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50 5:59 6:20 6:50	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley Limited 6:02 6:15	NB 66 N180607 18 Central Valley Limited 6:07 6:16 6:40	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18 6:19 6:28 7:19	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited 6:33 6:46	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44 6:53 7:14	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50 6:59 7:20 7:50	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do Valley Limited L	NB 1 50 100642 NO 100 NO 100 NO NO NO NO NO NO NO	NB 51 400646 N 4 4	NB 52 1020705 2 Express 7:05 7:15 7:26 7:30	NB 70 N200733 20 Central Valley Limited 7:33 7:46	NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:44 7:53 8:14	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41 7:50 7:59 8:20 8:50	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley Limited	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06 8:14 8:15 8:24 9:15	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:29	NB 74 N160833 16 Central Valley Limited	NB 56 N140812 14 LA 5 Merced Local 8:12 8:22 8:34 8:36 8:45 8:54 9:14 9:47	NB 75 57 N010835 17 1 .Fern'do Valley Area Limited
Dep 5:34 6:34	Northbound Service	Direction → Trainset → Train No. → Pattern → Dep Dep Dep An. Arr Dep Dep Arr Dep Arr	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N1902 199 S.Fern'do Valley Limited 5:02	NB 62 N180507 18 Central Valley Limited 5:07 5:16 5:40	NB 42 N040446 All-Stop Local 4:46 4:56 5:08 5:10 5:18 6:19 6:24	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited 5:33 5:46	NB 64 N210532 21 S.Fern'do Valley Limited 5:35 5:44 5:53 6:14	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50 6:20 6:50 6:54	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley Limited 6:02 6:15	NB 66 N180607 18 Central Valley Limited	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18 7:19 7:24	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited 6:33 6:46 7:34	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44 6:53 7:14	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50 6:59 7:20 7:50 7:54	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do (Valley Limited L 7:02 7:15	NB 150 1	NB 51	NB 52 10020705 2 2 Express 7:05 7:15 7:26 7:30	NB 70 70 70 70 70 70 70 70 70 70 70 70 70	NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:44 7:53 8:14	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41 7:50 7:59 8:20 8:50 8:54	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley Limited 8:03	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06 8:14 8:15 8:24 9:15 9:20	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:29	NB 74 N160833 16 Central Valley Limited 8:33	NB 56 N140812 14 L.A 5 Merced Local 8:12 8:22 8:34 8:36 8:45 8:54 9:14 9:47 9:55	NB 75 57 N010835 17 1 .Fern'do Valley Area Limited
399.2 GLY Gilroy Arr Dep 6:09 7:09 7:03 7:30 7:44 ▼ 8:00 8:03 8:09 8:30 8:44 ▼ 9:00 9:09 9:03 9:30 9:34 ▼ 10:00 10:04 10:12 10:18 10:40 10:30 10:48 11:01 11:04 11:04 10:05 10:04 10:12 10:18 10:40 10:30 10:48 11:01 11:04 11:04 10:05 10:04 10:12 10:18 10:40 10:30 10:48 11:01 11:04 10:05 10:05 10:05 1	Northbound Service	Direction → Trainset → Train No. → Pattern → idee Type → Dep Dep A: Arr Dep Dep Arr Dep	NB NB M3 M4 N150534 N150634 15 15 S.F S.F Merced Merced	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N1902 199 S.Fern'do Valley Limited 5:02	NB 62 N180507 18 Central Valley Limited 5:07 5:16 5:40	NB 42 N040446 44 All-Stop Local 4:46 4:56 5:08 5:19 5:18 5:19 5:28 6:19 6:24 7:03	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited 5:33 5:46	NB 64 N210532 21 S.Fern'do Valley Limited 5:35 5:44 5:53 6:14	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50 6:20 6:50 6:54 7:33	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced	NB 65 N190602 19 S.Fern'do Valley Limited 6:02 6:15	NB 66 N180607 18 Central Valley Limited 6:07 6:16 6:40	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18 7:19 7:24	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited 6:33 6:46 7:34	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44 6:53 7:14	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50 6:59 7:20 7:54 8:33	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do (Valley Limited L 7:02 7:15	NB 150 1	NB 51	NB 52 10020705 2 2 Express 7:05 7:15 7:26 7:30	NB 70 70 70 70 70 70 70 70 70 70 70 70 70	NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:44 7:53 8:14	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41 7:50 8:20 8:50 8:54 9:33	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced	NB 72 N160803 16 Central Valley Limited 8:03	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06 8:14 8:15 8:24 9:15 9:20	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:29	NB 74 N160833 16 Central Valley Limited 8:33	NB 56 N140812 14 L.A 5 Merced Local 8:12 8:22 8:34 8:36 8:45 8:54 9:14 9:47 9:55 10:34	NB 75 57 N010835 17 1 .Fern'do Valley Area Limited
Dep 6:09 7:09 7:03 7:04	Northbound Service	Direction → Trainset → Train No. → Pattern → Icce Type → Dep Dep Arr Dep Arr Dep Arr Dep Arr Dep Arr	NB M3 M4 N150534 N150534 N50534 N50534 N50534 N150634 N50534 N50554 N505	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N1902 199 S.Fern'do Valley Limited 5:02	NB 62 N180507 18 Central Valley Limited 5:07 5:16 5:40	NB 42 N040446 44 All-Stop Local 4:46 4:56 5:08 5:19 5:18 5:19 5:28 6:19 6:24 7:03	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited 5:33 5:46	NB 64 N210532 21 S.Fern'do Valley Limited 5:35 5:44 5:53 6:14	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50 6:20 6:50 6:54 7:33	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced Local	NB 65 N190602 19 S.Fern'do Valley Limited 6:02 6:15	NB 66 N180607 18 Central Valley Limited 6:07 6:16 6:40 7:45	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18 6:19 6:28 7:19 7:24 8:03	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited 6:33 6:46 7:34	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44 6:53 7:14	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50 6:59 7:20 7:54 8:33	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do (Valley Limited L 7:02 7:15	NB 150 1	NB 51	NB 52 10020705 2 2 Express 7:05 7:15 7:26 7:30	NB 70 70 70 70 70 70 70 70 70 70 70 70 70	NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:44 7:53 8:14	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41 7:50 8:20 8:50 8:54 9:33	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced Local	NB 72 N160803 16 Central Valley Limited 8:03 8:58 9:37	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06 8:14 8:15 8:24 9:15 9:20	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:29	NB 74 N160833 16 Central Valley Limited 8:33 9:28 10:07	NB 56 N140812 14 L.A 5 Merced Local 8:12 8:22 8:34 8:36 8:45 8:54 9:14 9:47 9:55 10:34	NB 75 57 N010835 17 1 .Fern'do Valley Area Limited
428.8 SJC San Jose Dep 6:25 7:25 7:19 7:32 7:46 8:00 7:42 8:06 8:16 8:19 8:25 8:32 8:46 9:00 8:42 9:06 9:16 9:25 9:19 9:32 9:46 10:00 9:42 10:06 10:16 10:20 10:28 10:34 10:56 10:46 11:04 11:17 11:20 11:35 11:20 11:35 11:22 11:35 11:22 11:35 11:23 11:37 11:42 12:05 11:52 12:12 11:38 12:20 12:23 11:37 11:42 12:05 11:52 12:12 11:38 12:20 12:23 11:35 11:23 11:37 11:42 12:05 11:52 12:12 11:38 12:20 12:23 12:12 11:38 12:20 12:23 12:12 11:38 12:20 12:23 12:12 11:38 12:20 12:23 12:23 12:23 12:24 12:25 12:25 12:12 11:38 12:20 12:23 12:25 12:2	Northbound Service	Direction → Trainset → Train No. → Patterm → Dep Dep Dep A. Arr Dep Dep Arr Dep	NB M3 M4 N150534 N150534 N50534 N50534 N50534 N150634 N50534 N50554 N505	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56	NB 61 N1902 199 S.Fern'do Valley Limited 5:02	NB 62 N180507 18 Central Valley Limited 5:07 5:16 5:40	NB 42 N040446 44 All-Stop Local 4:46 4:56 5:08 5:19 5:18 5:19 5:28 6:19 6:24 7:03	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited 5:33 5:46	NB 64 N210532 21 S.Fern'do Valley Limited 5:35 5:44 5:53 6:14	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50 6:20 6:50 6:54 7:33	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56	NB M6 N150734 15 S.F Merced Local	NB 65 N190602 19 S.Fern'do Valley Limited 6:02 6:15	NB 66 N180607 18 Central Valley Limited 6:07 6:16 6:40 7:45 ▼	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18 6:19 6:28 7:19 7:24 8:03	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited 6:33 6:46 7:34	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44 6:53 7:14	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50 6:59 7:20 7:54 8:33	NB 44 N150834 15 S.F Merced Local	NB 49 N010635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do Valley Limited L 7:02 7:15 7:36	NB 1 50 100642 N0 100 entral 10 entral 63:42 66:552 66:552 67:04 77:06 77:15 7 77:39 77:39 78:88 88:552 68:	NB 51	NB 52 10020705 2 2 Express 7:05 7:15 7:26 7:30	NB 70 70 70 70 70 70 70 70 70 70 70 70 70	NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:44 7:53 8:14 8:46	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41 7:50 8:20 8:50 8:54 9:33	NB 54 N010735 1 Bay Area Limited 7:35 7:45 7:56	NB 48 N150937 15 S.F Merced Local	NB 72 N160803 16 Central Valley Limited 8:03 8:58 9:37	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:06 8:14 8:15 8:24 9:15 9:20	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:29	NB 74 N160833 16 Central Valley Limited 8:33 9:28 10:07	NB 56 N140812 14 L.A 5 Merced Local 8:12 8:22 8:34 8:36 8:45 8:54 9:14 9:47 9:55 10:34	NB 75 57 N010835 17 1 .Fern'do Valley Area Limited
462.2 SFO Millbrae Arr 6:50 7:50 8:04 8:24 8:29 8:05 9:04 9:24 9:29 9:05 10:04 10:24 10:29 10:05 10:53 11:20 11:08 10:54 11:25 11:35 11:22 11:35 11:25 11:35 11:22 11:35 11:35 11:22 11:35 1	Northbound Service	Direction → Trainset → Trainset → Train No. → Pattern → Dep Dep A. Arr Dep Dep Arr Dep Arr Dep Arr Dep Arr Dep Arr Dep Arr	NB M3 M4 N150534 N150534 N5 S.F S.F Merced Local Local S:34 6:34	NB 41 N010435 1 Bay Area Limited 4:35 4:45 4:56 4:59	NB 61 N1902 199 S.Fern'do Valley Limited 5:02	NB 62 N180507 18 Central Valley Limited 5:07 5:16 5:40	NB 42 N040446 All-Stop Local 4:46 4:56 5:08 5:10 5:19 5:28 6:19 6:24 7:03	NB 43 N020505 2 Express 5:05 5:15 5:26	NB 63 N200533 20 Central Valley Limited 5:33 5:46	NB 64 N210535 21 S.Fern'do Valley Limited 5:35 5:44 5:53 6:14 6:46	NB 44 N140517 14 L.A Merced Local 5:17 5:27 5:39 5:41 5:50 6:20 6:50 6:54 7:33	NB 45 N010535 1 Bay Area Limited 5:35 5:45 5:56 5:59	NB M6 N150734 15 S.F Merced Local	NB 65 N190602 19 S.Fern'do Valley Limited 6:02 6:15	NB 66 N180607 18 Central Valley Limited 6:07 6:16 6:40 7:45 8:25	NB 46 N040546 4 All-Stop Local 5:46 5:56 6:08 6:10 6:18 6:19 6:28 7:19 7:24 8:03	NB 47 N020605 2 Express 6:05 6:15 6:26	NB 67 N200633 20 Central Valley Limited 6:33 6:46 7:34 8:13	NB 68 N210635 21 S.Fern'do Valley Limited 6:35 6:44 6:53 7:14	NB 48 N140617 14 L.A Merced Local 6:17 6:27 6:39 6:41 6:50 6:59 7:20 7:54 8:33	NB 44 N150834 1 15 S.F Merced Local	NB 49 49 No10635 1 Bay Area Limited 6:35 6:45 6:56 6:59	NB 69 N190702 N 19 S.Fern'do Valley Limited L 7:02 7:15 7:36	NB 1 50 10 10 10 10 10 10	NB 51 4404046 N 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	NB 52 10020705 2 2 Express 7:05 7:15 7:26 7:30	NB 70 20 20 Central Valley Limited 7:33 7:46 8:34 9:13	NB 71 N210735 21 S.Fern'do Valley Limited 7:35 7:44 7:53 8:14 8:46	NB 53 N140717 14 L.A Merced Local 7:17 7:27 7:39 7:41 7:50 8:20 8:50 8:54 9:33	NB 54 N010735 1 Bay Area Limited 7:35 7:45 8:00	NB 48 N150937 15 S.F Merced Local	NB 72 N160803 16 Central Valley Limited 8:03 8:58 9:37	NB 55 N040742 4 All-Stop Local 7:42 7:52 8:04 8:04 8:14 8:15 8:24 9:15 9:20	NB 73 N170810 17 S.Fern'do Valley Limited 8:10 8:19 8:29	NB 74 N160833 16 Central Valley Limited 8:33 9:28 10:07	NB 56 N140812 14 LA 5 Merced Local 8:12 8:22 8:34 8:36 8:45 8:54 9:14 9:47 9:55 10:34 10:58	NB 75 57 N010835 177 1 Septiment of the control of
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CALIFORNIA HIGH-SPEED RAIL PHASE 1 TIMETABLE VARIATION SERVICE PLAN

	Turns from →	→																																					
APPENDIX B1		Rea	Rea	Mid 1	Rea	Rea	Mid 2	Rea	Rea	Rea	Rea	Mid 1	Rea	Rea	Mid 2	Rea	Rea	Rea	Rea	Mid 1	Rea	Rea	Mid 2	Rea	Rea	Rea	Rea	Mid 1	Rea	Rea	Mid 2	Rea	Rea	Rea	Rea	Mid 1	Rea	Rea	Mid 2
	Direction →	→ SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
	Trainse		43	63	42	64	M6	45	61	65	66	47	46	68	44	49	45	69	50	52	51	71	48	54	49	72	73	74	55	75	53	57	54	2	3	6	M1	7	56
	Train No. → Pattern →	→ S010900 → 1	S170903	S160908 16	S040915 4	S170933 17	S160938 16	S150947 15	S141105 14	S011000	S171003 17	S161008 16	S041015 4	S171033	S161038 16	S151047 15	S141205 14	S011100	S171103	S161108 16	S041115 4	S171133 17	S161138 16	S151147 15	S141305 14	S011200	S171203	S161208 16	S041215 4	S171233	S161238 16	S151247 15	S141405	S011300	S171303	S161308 16	S041315 4	S171333 17	S161338 16
Southbound			S.Fern'do			S.Fern'do		S.F	L.A	Bay	S.Fern'do			S.Fern'do		S.F	L.A	Bay	S.Fern'do	Central		S.Fern'do	Central	S.F	L.A	Bay	S.Fern'do			S.Fern'do		S.F	L.A	Bay	S.Fern'do			S.Fern'do	
·	Service Type →	→ Area	Valley	Valley	All-Stop	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	Valley	Valley
		Limited	Limited	Limited	Local	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Limited	Limited
Mile <u>Station</u>										10.00																10.00										10.00	40.45		40.00
0.0 SFT S.FTra		p 9:00	9:03	9:08 9:23	9:15 9:30	9:33	9:38 9:53	9:47 10:02		10:00	10:03	10:08	10:15	10:33		10:47 11:02		11:00	11:03		11:15 11:30	11:33		11:47 12:02		12:00	12:03		12:15 12:30	12:33	12:38 12:53			13:00	13:03		13:15 13:30	13:33	13:38 13:53
26.4 RWC Redwoo		p 9:20	9:23	9:33	9:40	9:53	10:03				10:23			10:53					11:23			11:53					12:23		12:40	12:53					13:23			13:53	
48.0 SJC San Jos		p 9:34				10:08					10:38											12:08							12:55						13:38		13:55		
77.7 GLY Gilroy	Arr																																						
	Dep		9:53	10:04	10:11	10:23	10:34			10:50	10:53	11:04	11:11	11:23	11:34			11:50	11:53	12:04	12:11	12:23	12:34			12:50	12:53	13:04	13:11	13:23	13:34			13:50	13:53	14:04	14:11	14:23	14:34
187.5 MCD Merced	Arr			↓	+		↓	11:17	11:05			+	+		. ↓	12:17	12:05	1		\	+		+	13:17	13:05			. ↓	+	1	. ↓	14:17	14:05			↓	\		+
191.5 FNO Fresno	Dep Arr								11:25								12:25								13:25								14:25						
101.01110 1100.10	Dep			10:45	10:52		11:15		11:42			11:45	11:52		12:15		12:42			12:45	12:52		13:15		13:42			13:45	13:52		14:15		14:42			14:45	14:52		15:15
302.8 BFD Bakersf	ield Arr	r			11:30								12:30								13:30								14:30								15:30		
	Dep			11:24	11:35		11:54		12:12			12:24	12:35		12:54		13:12			13:24	13:35		13:54		14:12			14:24	14:35		14:54		15:12			15:24	15:35		15:54
387.4 PMD Palmda			11:33		12.00	12:02			12:44		12:33		12:00	13:03			13:44		13:33		14.00	14:03			14:44		14:33		15:09	▼			15:44		15:33		16:00	16:03	
425.7 SYL Sylmar	Dep Dep		11:54			12:03 12:24			13:05		12:54			13:24			14:05		13:54			14:24			15:05		14:54		15:30				16:05		15:54			16:24	
436.3 BUR Burbani					12.00				10.00		12.01		10.00	.0.2					10.01						10.00		1 1.0 1		10.00				10.00		10.01		10.00	10.21	
	Dep	p 🔻	12:03	*	12:38		*		13:14	*	13:03	*	13:38	13:33	*		14:14	*	14:03	*	14:38	14:33	*		15:14	*	15:03	*	15:38	15:33	*		16:14	*	16:03		16:38	16:33	*
446.6 LAU L.A. Un			12:11	12:25			12:49		13:22	12:53	13:11	13:25		13:41	13:49		14:22		14:11	14:25		14:41	14:49		15:22		15:11	15:25		15:41	15:49		16:22		16:11	16:25	16:46	16:41	16:49
461.8 NSF Norwall		p 11:55 r 12:07			12:48 13:00				13:24 13:35	12:55			13:48 14:00				14:24 14:35	13:55			14:48 15:00				15:24	14:55 15:07			15:48 16:00				16:24	15:55 16:07			16:48 17:00		
476.9 ANA Anaheir		r 12:17			13:10					13:17			14:10					14:07			15:10					15:17			16:10					16:17			17:10		
	Available ->		12:51	13:05	13:50	13:21	13:29	11:57	14:26	13:57	13:51	14:05	14:50	14:21	14:29	12:57	15:26	14:57	14:51	15:05	15:50	15:21	15:29	13:57	16:26	15:57	15:51	16:05	16:50	16:21	16:29	14:57	17:26	16:57	16:51	17:05	17:50	17:21	17:29
	Turns from →	Reg	Reg	Reg	Shoulder	Reg	Reg	Mid 2	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Mid 2	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Mid 2	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Mid 2	Reg	Reg	Reg	Reg	Reg	Reg	Reg
	Direction →	Reg → NB	Reg NB	NB	Shoulder NB	Reg NB	Reg NB	Mid 2 NB	Reg NB	NB	NB	NB	Reg NB	NB	NB	NB	Reg NB	NB	NB	NB	NB	NB	NB	NB	Reg NB	NB	NB	Reg NB	Reg NB	Reg NB	Reg NB	NB	Reg NB	NB	Reg NB	Reg NB	Reg NB	NB	Reg NB
	Direction → Trainse	Reg NB	Reg NB 2 N160903	rtog	00	NB 6	Reg NB 1 N140912	Mid 2 NB 7 N170940	Reg NB 5 N010935		NB 10	rtog	Reg NB 4 N171010	Reg NB 14 N161033	rtog		Reg NB 13 N011035				rtog				Reg NB 21 N011135	NB 9	9	Reg NB 8 N041142	26	Reg NB 41 N161233	Reg NB 25 N141212		16	NB 17	Reg NB 43 N161303	Reg NB 27 N041242	Reg NB 63 N171310	NB 64	Reg NB 62 N141312
	Direction → Trainse	Reg → NB et 53 → N151037 → 15	NB 2 N160903	NB M1	NB 3 N170910 17	NB 6 N160933	NB 1 N140912	NB 7 N170940 17	5 N010935 1	NB 56 N151137 15	NB 10 N161003	NB M2	4 N171010 17	NB 14 N161033	NB 9 N141012 14	NB 15 N171040	13 N011035 1	NB 1 N151237	NB 18 N161103	NB M5	NB 19 N171110 17	NB 22 N161133 16	NB 17 N141112 14	NB 23 N171140 17	21 N011135 1	NB 9 N151337 15	NB M3 N161203	8 N041142 4	26 N171210 17	N161233 16	25 N141212 14	NB M4 N171240	16 N011235	NB 17 N151437	43 N161303 16		63 N171310 17	NB 64 N161333 16	N141312 14
<u>Northbound</u>	Direction → Trainse Train No. → Pattern →	Reg → NB et 53 → N151037 → 15 S.F	NB 2 N160903 16 Central	NB M1 N040842	NB 3 N170910 17 S.Fern'do	NB 6 N160933	NB 1 N140912 14 L.A	NB 7	5 N010935 1 Bay	NB 56 N151137 15 S.F	NB 10 N161003 16 Central	NB M2 N040942 4	4 N171010 17 S.Fern'do	NB 14 N161033 16 Central	NB 9 N141012 14 L.A	NB 15	13 N011035 1 Bay	NB 1 N151237 15 S.F	NB 18 N161103 16 Central	NB M5 N041042	NB 19 N171110 17 S.Fern'do	NB 22 N161133 16 Central	NB 17 N141112 14 L.A	NB 23	21 N011135 1 Bay	NB 9 N151337 15 S.F	NB M3 N161203 16 Central	8 N041142 4	26 N171210 17 S.Fern'do	N161233 16 Central	25 N141212 14 L.A	NB M4	16 N011235 1 o Bay	NB 17 N151437 15 S.F	43 N161303 16 Central	N041242 4	63 N171310 17 S.Fern'do	NB 64 N161333 16	N141312 14 L.A
<u>Northbound</u>	Direction → Trainse Train No. →	Reg → NB et 53 → N151037 → 15 S.F → Merced	NB 2 N160903 16 Central Valley	NB M1 N040842 4 All-Stop	NB 3 N170910 17 S.Fern'dd Valley	NB 6 N160933 16 Central Valley	NB 1 N140912 14 L.A	NB 7 N170940 17 S.Fern'do Valley	5 N010935 1 Bay Area	NB 56 N151137 15 S.F Merced	NB 10 N161003 16 Central Valley	NB M2 N040942 4 All-Stop	4 N171010 17 S.Fern'do Valley	NB 14 N161033 16 Central Valley	NB 9 N141012 14 L.A Merced	NB 15 N171040 17 S.Fern'do Valley	13 N011035 1 Bay Area	NB 1 N151237 15 S.F Merced	NB 18 N161103 16 Central Valley	NB M5 N041042 4	NB 19 N171110 17 S.Fern'do Valley	NB 22 N161133 16 Central Valley	NB 17 N141112 14 L.A Merced	NB 23 N171140 17 S.Fern'do Valley	21 N011135 1 Bay Area	NB 9 N151337 15 S.F Merced	NB M3 N161203 16 Central Valley	8 N041142 4 All-Stop	26 N171210 17 S.Fern'do Valley	N161233 16 Central Valley	25 N141212 14 L.A Merced	NB M4 N171240 17 S.Fern'dd Valley	16 N011235 1 O Bay Area	NB 17 N151437 15 S.F Merced	43 N161303 16 Central Valley	4 All-Stop	63 N171310 17 S.Fern'do Valley	NB 64 N161333 16 Central Valley	N141312 14 L.A Merced
	Direction → Trainse Train No. → Pattern →	Reg → NB et 53 → N151037 → 15 S.F	NB 2 N160903 16 Central	NB M1 N040842	NB 3 N170910 17 S.Fern'do	NB 6 N160933 16 Central Valley	NB 1 N140912 14 L.A	NB 7 N170940 17	5 N010935 1 Bay	NB 56 N151137 15 S.F	NB 10 N161003 16 Central	NB M2 N040942 4	4 N171010 17 S.Fern'do Valley	NB 14 N161033 16 Central	NB 9 N141012 14 L.A	NB 15 N171040 17 S.Fern'do Valley	13 N011035 1 Bay	NB 1 N151237 15 S.F Merced	NB 18 N161103 16 Central	NB M5 N041042 4	NB 19 N171110 17 S.Fern'do Valley	NB 22 N161133 16 Central	NB 17 N141112 14 L.A	NB 23 N171140 17 S.Fern'do Valley	21 N011135 1 Bay	NB 9 N151337 15 S.F Merced	NB M3 N161203 16 Central	8 N041142 4 All-Stop	26 N171210 17 S.Fern'do Valley	N161233 16 Central	25 N141212 14 L.A Merced	NB M4 N171240	16 N011235 1 O Bay Area	NB 17 N151437 15 S.F Merced	43 N161303 16 Central	4 All-Stop	63 N171310 17 S.Fern'do Valley	NB 64 N161333 16 Central Valley	N141312 14 L.A Merced
Mile <u>Station</u> 0.0 ANA Anaheir	Direction → Trainse Train No. → Pattern → Service Type →	Reg → NB et 53 → N151037 → 15 S.F → Merced Local	NB 2 N160903 16 Central Valley	NB M1 N040842 4 All-Stop Local	NB 3 N170910 17 S.Fern'dd Valley	NB 6 N160933 16 Central Valley	NB 1 N140912 14 L.A Merced Local	NB 7 N170940 17 S.Fern'do Valley	5 N010935 1 Bay Area Limited	NB 56 N151137 15 S.F Merced	NB 10 N161003 16 Central Valley	NB M2 N040942 4 All-Stop Local	4 N171010 17 S.Fern'do Valley	NB 14 N161033 16 Central Valley	NB 9 N141012 14 L.A Merced Local	NB 15 N171040 17 S.Fern'do Valley	13 N011035 1 Bay Area Limited	NB 1 N151237 15 S.F Merced	NB 18 N161103 16 Central Valley	NB M5 N041042 4 All-Stop Local	NB 19 N171110 17 S.Fern'do Valley	NB 22 N161133 16 Central Valley	NB 17 N141112 14 L.A Merced Local	NB 23 N171140 17 S.Fern'do Valley	21 N011135 1 Bay Area Limited	NB 9 N151337 15 S.F Merced Local	NB M3 N161203 16 Central Valley	8 N041142 4 All-Stop Local	26 N171210 17 S.Fern'do Valley	N161233 16 Central Valley	25 N141212 14 L.A Merced Local	NB M4 N171240 17 S.Fern'dd Valley	16 N011235 1 Bay Area Limited	NB 17 15 N151437 15 S.F Merced Local	43 N161303 16 Central Valley	All-Stop Local	63 N171310 17 S.Fern'do Valley	NB 64 N161333 16 Central Valley	N141312 14 L.A Merced Local
Mile <u>Station</u> 0.0 ANA Anaheir 15.0 NSF Norwalk	Direction → Trainse Train No. → Pattern → Service Type →	Reg → NB et 53 → N151037 → 15 S.F → Merced Local	NB 2 N160903 16 Central Valley	NB M1 N040842 4 All-Stop Local 8:42 8:52	NB 3 N170910 17 S.Fern'dd Valley	NB 6 N160933 16 Central Valley	NB 1 N140912 14 L.A Merced Local 9:12 9:22	NB 7 N170940 17 S.Fern'do Valley	5 N010935 1 Bay Area Limited 9:35 9:45	NB 56 N151137 15 S.F Merced	NB 10 N161003 16 Central Valley	NB M2 N040942 4 All-Stop Local 9:42 9:52	4 N171010 17 S.Fern'do Valley	NB 14 N161033 16 Central Valley	NB 9 N141012 14 L.A Merced Local	NB 15 N171040 17 S.Fern'do Valley	13 N011035 1 Bay Area Limited 10:35 10:45	NB 1 N151237 15 S.F Merced	NB 18 N161103 16 Central Valley	NB M5 N041042 4 All-Stop Local 10:42 10:52	NB 19 N171110 17 S.Fern'do Valley	NB 22 N161133 16 Central Valley	NB 17 N141112 14 L.A Merced Local 11:12	NB 23 N171140 17 S.Fern'do Valley	21 N011135 1 Bay Area Limited 11:35 11:45	NB 9 N151337 15 S.F Merced Local	NB M3 N161203 16 Central Valley	8 N041142 4 All-Stop Local 11:42 11:52	26 N171210 17 S.Fern'do Valley	N161233 16 Central Valley	25 N141212 14 L.A Merced Local 12:12	NB M4 N171240 17 S.Fern'dd Valley	16 N011235 1 0 Bay Area Limited 12:35 12:45	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley	N041242 4 All-Stop Local 12:42 12:52	63 N171310 17 S.Fern'do Valley	NB 64 N161333 16 Central Valley	N141312 14 L.A Merced Local 13:12 13:22
Mile <u>Station</u> 0.0 ANA Anaheir	Direction → Trainse Train No. → Pattern → Service Type → m Dep C Dep ion Sta. Arr	Reg → NB et 53 → N151037 → 15 S.F → Merced Local	NB 2 N160903 16 Central Valley Limited	NB M1 N040842 4 All-Stop Local 8:42 8:52 9:04	NB 3 N170910 17 S.Fern'dd Valley Limited	NB 6 N160933 16 Central Valley Limited	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34	NB 7 N170940 17 S.Fern'do Valley Limited	5 N010935 1 Bay Area Limited 9:35 9:45 9:56	NB 56 N151137 15 S.F Merced	NB 10 N161003 16 Central Valley Limited	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04	4 N171010 17 S.Fern'do Valley Limited	NB 14 N161033 16 Central Valley Limited	NB 9 N141012 14 L.A Merced Local 10:12 10:22 10:34	NB 15 N171040 17 S.Fern'do Valley Limited	13 N011035 1 Bay Area Limited 10:35 10:45 10:56	NB 1 N151237 15 S.F Merced	NB 18 N161103 16 Central Valley Limited	NB M5 N041042 4 All-Stop Local 10:42 10:52 11:04	NB 19 N171110 17 S.Fern'do Valley Limited	NB 22 N161133 16 Central Valley Limited	NB 17 N141112 14 L.A Merced Local 11:12 11:22 11:34	NB 23 N171140 17 S.Fern'do Valley Limited	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N151337 15 S.F Merced Local	NB M3 N161203 16 Central Valley Limited	8 N041142 4 All-Stop Local 11:42 11:52 12:04	26 N171210 17 S.Fern'do Valley Limited	N161233 16 Central Valley Limited	25 N141212 14 L.A Merced Local 12:12 12:22 12:34	NB M4 N171240 17 S.Fern'di Valley Limited	16 N011238 1 0 Bay Area Limited 12:35 12:45	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley Limited	N041242 4 All-Stop Local 12:42 12:52 13:04	63 N171310 17 S.Fern'do Valley Limited	NB 64 N161333 16 Central Valley Limited	N141312 14 L.A Merced Local 13:12 13:22 13:34
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwalk 30.3 LAU L.A. Un	Direction → Trainse Train No. → Pattern → Service Type → Dep Dep Dep Arr Dep	Reg → NB et 53 → N151037 → 15 S.F → Merced Local	NB 2 N160903 16 Central Valley	NB M1 N040842 4 All-Stop Local 8:42 8:52	NB 3 N170910 17 S.Fern'dd Valley	NB 6 N160933 16 Central Valley Limited	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36	NB 7 N170940 17 S.Fern'do Valley	5 N010935 1 Bay Area Limited 9:35 9:45	NB 56 N151137 15 S.F Merced	NB 10 N161003 16 Central Valley	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06	4 N171010 17 S.Fern'do Valley	NB 14 N161033 16 Central Valley Limited	NB 9 N141012 14 L.A Merced Local	NB 15 N171040 17 S.Fern'do Valley Limited	13 N011035 1 Bay Area Limited 10:35 10:45	NB 1 N151237 15 S.F Merced	NB 18 N161103 16 Central Valley Limited	NB M5 N041042 4 All-Stop Local 10:42 10:52 11:04	NB 19 N171110 17 S.Fern'do Valley Limited	NB 22 N161133 16 Central Valley	NB 17 N141112 14 L.A Merced Local 11:12 11:22 11:34	NB 23 N171140 17 S.Fern'do Valley	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N151337 15 S.F Merced Local	NB M3 N161203 16 Central Valley Limited	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:06	26 N171210 17 S.Fern'do Valley Limited	N161233 16 Central Valley Limited	25 N141212 14 L.A Merced Local 12:12 12:22 12:34 12:36	NB M4 N171240 17 S.Fern'di Valley Limited	16 N011235 1 0 Bay Area Limited 12:35 12:45 12:56 13:00	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley	N041242 4 All-Stop Local 12:42 12:52 13:04 13:06	63 N171310 17 S.Fern'do Valley Limited	NB 64 N161333 16 Central Valley Limited	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwalk 30.3 LAU L.A. Un 40.6 BUR Burbank 51.1 SYL Sylmar	Direction → Trainse Train No. → Pattern → Service Type → M Dep tion Sta. Arr Dep K Dep to Dep	Reg NB et 53 N151037 → 15 S.F → Merced Local	NB 2 N160903 16 Central Valley Limited	NB M1 N040842 4 All-Stop Local 8:42 8:52 9:04 9:06	NB 3 N170910 17 S.Fern'dd Valley Limited 9:10 9:19	NB 6 N160933 16 Central Valley Limited	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34	NB 7 N170940 17 S.Fern'do Valley Limited	5 N010935 1 Bay Area Limited 9:35 9:45 9:56	NB 56 N151137 15 S.F Merced	NB 10 N161003 16 Central Valley Limited	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:14	4 N171010 17 S.Fern'do Valley Limited	NB 14 N161033 16 Central Valley Limited	NB 9 N141012 14 L.A Merced Local 10:12 10:22 10:34 10:36	NB 15 N171040 17 S.Fern'do Valley Limited	13 N011035 1 Bay Area Limited 10:35 10:45 10:56	NB 1 N151237 15 S.F Merced	NB 18 N161103 16 Central Valley Limited	NB M5 N041042 4 All-Stop Local 10:42 10:52 11:04 11:06	NB 19 N171110 17 S.Fern'do Valley Limited	NB 22 N161133 16 Central Valley Limited	NB 17 N141112 14 L.A Merced Local 11:12 11:22 11:34 11:36	NB 23 N171140 17 S.Fern'do Valley Limited 11:40 11:49	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N151337 15 S.F Merced Local	NB M3 N161203 16 Central Valley Limited	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:06	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19	N161233 16 Central Valley Limited	25 N141212 14 L.A Merced Local 12:12 12:22 12:34 12:36 12:45	NB M4 N171240 17 S.Fern'dd Valley Limited	16 N011235 1 0 Bay Area Limited 12:35 12:45 12:56 13:00	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley Limited	N041242 4 All-Stop Local 12:42 12:52 13:04 13:06 13:14	63 N171310 17 S.Fern'do Valley Limited	NB 64 N161333 16 Central Valley Limited	N141312 14 L.A Merced Local 13:12 13:22 13:34
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwalk 30.3 LAU L.A. Un 40.6 BUR Burbank	Direction → Trainse Train No. → Pattern → Service Type → m Dep C Dep ion Sta. Arr Dep C Dep L Arr	Reg NB et 53 NI51037 15 S.F Merced Local	NB 2 N160903 16 Central Valley Limited	NB M1 N040842 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15	NB 3 N170910 17 S.Fern'dc Valley Limited 9:10 9:19 9:29	NB 6 N160933 16 Central Valley Limited	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45	NB 7 170740 177 S.Fern'do Valley Limited 9:40 9:58	5 N010935 1 Bay Area Limited 9:35 9:45 9:56	NB 56 N151137 15 S.F Merced	NB 10 N161003 16 Central Valley Limited	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:15	4 N171010 17 S.Fern'do Valley Limited 10:10 10:19	NB 14 N161033 16 Central Valley Limited	NB 9 N141012 14 L.A Merced Local 10:12 10:22 10:34 10:34 10:35 10:45	NB 15 N171040 17 S.Fern'do Valley Limited 10:40 10:49 10:58	13 N011035 1 Bay Area Limited 10:35 10:45 10:56	NB 1 N151237 15 S.F Merced	NB 18 N161103 16 Central Valley Limited	NB M5 N041042 4 All-Stop Local 10:42 10:52 11:04 11:15	NB 19 N17110 17 S.Fern'do Valley Limited 11:10 11:19	NB 22 N161133 16 Central Valley Limited	NB 17 N141112 14 L.A Merced Local 11:12 11:22 11:34 11:34 11:45	NB 23 N1711140 17 S.Fern'do Valley Limited 11:40 11:49 11:58	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N151337 15 S.F Merced Local	NB M3 N161203 16 Central Valley Limited	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:06 12:14 12:15	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28	N161233 16 Central Valley Limited	25 N141212 14 L.A Merced Local 12:12 12:22 12:34 12:36 12:45 12:54	NB M4 N171240 17 S.Fern'dd Valley Limited 12:40 12:49 12:58	16 N011239 1 0 Bay Area Limitec 12:35 12:45 12:56 13:00	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley Limited	N041242 4 All-Stop Local 12:42 12:52 13:04 13:06 13:14 13:15	63 N171310 17 S.Fern'do Valley Limited 13:10 13:19 13:28	NB 64 N161333 16 Central Valley Limited	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwall 30.3 LAU L.A. Un 40.6 BUR Burbanl 51.1 SYL Sylmar 89.4 PMD Palmda	Direction → Trainse Train No. → Pattern → Service Type → M Dep K Dep ion Sta. Arr Dep K Dep	Reg NB et 53 N151037 > 15 S.F	NB 2 N160903 16 Central Valley Limited	NB M1 N80842 4 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 9:24	NB 3 N170910 17 S.Fern'dd Valley Limited 9:10 9:19	NB 6 N160933 16 Central Valley Limited	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45 9:54	NB 7 N170940 17 S.Fern'do Valley Limited 9:40 9:49	5 N010935 1 Bay Area Limited 9:35 9:45 9:56	NB 56 N151137 15 S.F Merced	NB 10 N161003 16 Central Valley Limited	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:14 10:15 10:24	4 N171010 17 S.Fern'do Valley Limited 10:10	NB 14 N161033 16 Central Valley Limited	NB 9 N141012 14 L.A Merced Local 10:12 10:22 10:34 10:36 10:45 11:14	NB 15 N171040 17 S.Fern'do Valley Limited	13 N011035 1 Bay Area Limited 10:35 10:45 10:56	NB 1 N151237 15 S.F Merced	NB 18 N161103 16 Central Valley Limited	NB M5 N041042 4 All-Stop Local 10:42 10:52 11:04 11:04 11:14 11:15	NB 19 N17110 17 S.Fern'do Valley Limited 11:10 11:19	NB 22 N161133 16 Central Valley Limited	NB 17 N141112 14 L.A Merced Local 11:12 11:22 11:34 11:34 11:45 11:54	NB 23 N171140 17 S.Fern'do Valley Limited 11:40 11:49	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N151337 15 S.F Merced Local	NB M3 N161203 16 Central Valley Limited	8 NO41142 4 All-Stop Local 11:42 11:52 12:04 12:06 12:14 12:15	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19	N161233 16 Central Valley Limited	25 N141212 14 L.A Merced Local 12:12 12:22 12:34 12:36 12:45 12:54	NB M4 N171240 17 S.Fern'dd Valley Limited 12:40 12:49 12:58	16 N011239 1 0 Bay Area Limitec 12:35 12:45 12:56 13:00	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley Limited	N041242 4 All-Stop Local 12:42 12:52 13:04 13:16 13:15	63 N171310 17 S.Fern'do Valley Limited 13:10	NB 64 N161333 16 Central Valley Limited	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwalk 30.3 LAU L.A. Un 40.6 BUR Burbank 51.1 SYL Sylmar	Direction → Trainse Train No. → Pattern → Service Type → The part of the pa	Reg NB et 53 N151037 → 15 S.F → Merced Local	NB 2 N160903 16 Central Valley Limited	NB M1 N040842 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 9:24 10:15	NB 3 N170910 17 S.Fern'dc Valley Limited 9:10 9:19 9:29	NB 6 N16093 16 Central Valley Limited	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45 9:54	NB 7 170740 177 S.Fern'do Valley Limited 9:40 9:58	5 N010935 1 Bay Area Limited 9:35 9:45 9:56	NB 56 N151137 15 S.F Merced	NB 10 N161033 16 Central Valley Limited	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:16 10:14 10:15 10:24 11:15	4 N171010 17 S.Fern'do Valley Limited 10:10 10:19	NB 14 M161033 16 Central Valley Limited	NB 9 N141012 14 L.A Merced Local 10:12 10:34 10:36 10:45 10:54 11:14 11:47	NB 15 N171040 17 S.Fern'do Valley Limited 10:40 10:49 10:58	13 N011035 1 Bay Area Limited 10:35 10:45 10:56	NB 1 1N151237 15 S.F Merced Local	NB 18 N161103 16 Central Valley Limited	NB M5 M041042 4 All-Stop Local 10:42 10:52 11:04 11:15 11:24 12:15	NB 19 N17110 17 S.Fern'do Valley Limited 11:10 11:19	NB 22 N161133 16 Central Valley Limited	NB 17 NH1112 14 L.A Merced Local 11:12 11:22 11:34 11:36 11:45 11:54	NB 23 N1711140 17 S.Fern'do Valley Limited 11:40 11:49 11:58	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N151337 15 S.F Merced Local	NB M3 Nt61203 160 Central Valley Limited	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:06 12:14 12:15 12:24 13:15	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28	N161233 16 Central Valley Limited	25 N141212 14 L.A Merced Local 12:12 12:22 12:34 12:36 12:45 12:54 13:14 13:47	NB M4 N171240 17 S.Fern'dd Valley Limited 12:40 12:49 12:58	16 N011239 1 0 Bay Area Limitec 12:35 12:45 12:56 13:00	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley Limited	N041242 4 All-Stop Local 12:42 12:52 13:04 13:16 13:14 13:15 13:24 14:15	63 N171310 17 S.Fern'do Valley Limited 13:10 13:19 13:28	NB 64 Nt61333 16 Central Valley Limited	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54 14:14 14:47
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwalk 30.3 LAU L.A. Un 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmda	Direction → Trainse Train No. → Pattern → Service Type → M Dep K Dep ion Sta. Arr Dep K Dep	Reg NB et 53 N151037 → 15 S.F → Merced Local	NB 2 N160903 16 Central Valley Limited	NB M1 N80842 4 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 9:24	NB 3 N170910 17 S.Fern'dc Valley Limited 9:10 9:19 9:29	NB 6 N16093 16 Central Valley Limited	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45 9:54	NB 7 170740 177 S.Fern'do Valley Limited 9:40 9:58	5 N010935 1 Bay Area Limited 9:35 9:45 9:56	NB 56 N151137 15 S.F Merced	NB 10 N161033 16 Central Valley Limited	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:14 10:15 10:24	4 N171010 17 S.Fern'do Valley Limited 10:10 10:19	NB 14 M161033 16 Central Valley Limited	NB 9 N141012 14 L.A Merced Local 10:12 10:22 10:34 10:36 10:45 11:14	NB 15 N171040 17 S.Fern'do Valley Limited 10:40 10:49 10:58	13 N011035 1 Bay Area Limited 10:35 10:45 10:56	NB 1 1N151237 15 S.F Merced Local	NB 18 N161103 16 Central Valley Limited	NB M5 M041042 4 All-Stop Local 10:42 10:52 11:04 11:15 11:24 12:15	NB 19 N17110 17 S.Fern'do Valley Limited 11:10 11:19	NB 22 N161133 16 Central Valley Limited	NB 17 N141112 14 L.A Merced Local 11:12 11:22 11:34 11:34 11:45 11:54	NB 23 N1711140 17 S.Fern'do Valley Limited 11:40 11:49 11:58	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N151337 15 S.F Merced Local	NB M3 Nt61203 160 Central Valley Limited	8 NO41142 4 All-Stop Local 11:42 11:52 12:04 12:06 12:14 12:15	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28	N161233 16 Central Valley Limited	25 N141212 14 L.A Merced Local 12:12 12:22 12:34 12:36 12:45 12:54	NB M4 N171240 17 S.Fern'dd Valley Limited 12:40 12:49 12:58	16 N011239 1 0 Bay Area Limitec 12:35 12:45 12:56 13:00	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley Limited	N041242 4 All-Stop Local 12:42 12:52 13:04 13:16 13:15	63 N171310 17 S.Fern'do Valley Limited 13:10 13:19 13:28	NB 64 Nt61333 16 Central Valley Limited	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwall 30.3 LAU L.A. Un 40.6 BUR Burbanl 51.1 SYL Sylmar 89.4 PMD Palmda 174.1 BFD Bakersf 285.4 FNO Fresno	Direction → Trainse Train No. → Pattern → Service Type → m Dep Dep ion Sta. Arr Dep k Dep Dep le Arr Dep Arr Dep	Reg NB et 53 N151037 15 S.F	NB 2 N160903 16 Central Valley Limited 9:03	NB M1 N040842 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 9:24 10:15	NB 3 N170910 17 S.Fern'dc Valley Limited 9:10 9:19 9:29	NB 6 N60933 166 Central Valley Limited	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45 9:54 10:14 10:47 10:55	NB 7 170740 177 S.Fern'do Valley Limited 9:40 9:58	5 N010935 1 Bay Area Limited 9:35 9:45 9:56	NB 56 N151137 15 S.F Merced	NB 10 N161033 16 Central Valley Limited	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:14 10:15 10:24 11:15 11:20	4 N171010 17 S.Fern'do Valley Limited 10:10 10:19	NB 14 N161033 16 Central Valley Limited	NB 9 N141012 144 L.A Merced Local 10:12 10:34 10:36 10:45 10:55 11:14 11:55 12:34	NB 15 N171040 17 S.Fern'do Valley Limited 10:40 10:49 10:58	13 N011035 1 Bay Area Limited 10:35 10:45 10:56	NB 1 1N151237 15 S.F Merced Local	NB 18 N161103 16 Central Valley Limited	NB M5 N041042 4 All-Stop Local 10:42 10:52 11:04 11:14 11:15 11:24 12:15 12:20	NB 19 N17110 17 S.Fern'do Valley Limited 11:10 11:19	NB 22 N161133 16 Central Valley Limited	NB 17 N141112 14 L.A Merced Local 11:12 11:34 11:36 11:45 11:54 12:14 12:47 12:55	NB 23 N1711140 17 S.Fern'do Valley Limited 11:40 11:49 11:58	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N151337 15 S.F Merced Local	NB M3 N161203 166 Central Valley Limited	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:06 12:14 12:15 12:24 13:15	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28	N161233 16 Central Valley Limited 12:33	25 N141212 14 L.A Merced Local 12:12 12:34 12:36 12:45 12:54 13:14 13:47 13:55	NB M4 N171240 17 S.Fern'dd Valley Limited 12:40 12:49 12:58	16 N011239 1 0 Bay Area Limitec 12:35 12:45 12:56 13:00	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley Limited	N041242 4 All-Stop Local 12:42 12:52 13:04 13:16 13:14 13:15 13:24 14:15	63 N171310 17 S.Fern'do Valley Limited 13:10 13:19 13:28	NB 64 N161333 16 Central Valley Limited	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54 14:14 14:47 14:55
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwalk 30.3 LAU L.A. Un 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmda 174.1 BFD Bakersf	Direction → Trainse Train No. → Pattern → Service Type → Train No. → Pattern → Service Type → Depion Sta. Arr Dep Arr Dep Arr	Reg NB et 53 N151037 → 15 S.F → Merced Local P P P P P P P P P P P P P P P P P P P	NB 2 N160903 16 Central Valley Limited 9:03 9:58	NB M1 N040842 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 0:20 10:59	NB 3 N170910 17 S.Fern'dc Valley Limited 9:10 9:19 9:29	NB 6 N160933 16 Central Valley Limited 9:33 10:28 11:07	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:45 9:54 10:14 10:55	NB 7 170740 177 S.Fern'do Valley Limited 9:40 9:58	5 N010935 1 Bay Area Limited 9:35 9:45 9:56	NB 56 Nt51137 115 S.F Merced Local	NB 10 N16103 166 Central Valley Limited 10:03 10:58 11:37	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:14 10:15 11:20 11:59	4 N171010 17 S.Fern'do Valley Limited 10:10 10:19	NB 14 N161033 16 Central Valley Limited	NB 9 N141012 14 L.A Merced Local 10:12 10:22 10:34 10:36 10:45 10:54 11:14 11:47 11:55	NB 15 N171040 17 S.Fern'do Valley Limited 10:40 10:49 10:58	13 N011035 1 Bay Area Limited 10:35 10:45 10:56	NB 1 N151237 15 S.F Merced Local	NB 18 N161103 16 Central Valley Limited 11:03 11:58	NB M5 M5 M041042 4 4 All-Stop Local 10:42 10:52 11:04 11:06 11:14 11:15 11:24 12:15 12:20 12:59	NB 19 N17110 17 S.Fern'do Valley Limited 11:10 11:19	NB 22 N161133 16 Central Valley Limited 11:33 12:28 13:07	NB 17 N141112 14 L.A Merced Local 11:12 11:22 11:34 11:34 11:45 11:54 12:47 12:55	NB 23 N1711140 17 S.Fern'do Valley Limited 11:40 11:49 11:58	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N15137 15 S.F Merced Local	NB M3 N16123 16 Central Valley Limited 12:03 12:58 13:37	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:16 12:14 12:15 12:24 13:15 13:20 13:59	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28	16 Central Valley Limited 12:33 13:28	25 N141212 14 L.A Merced Local 12:12 12:22 12:34 12:36 12:45 12:54 13:14 13:47 13:55	NB M4 N171240 17 S.Fern'dd Valley Limited 12:40 12:49 12:58	16 N011239 1 0 Bay Area Limitec 12:35 12:45 12:56 13:00	NB 17 N15137 15 S.F Merced Local	43 N161303 16 Central Valley Limited 13:03	N041242 4 All-Stop Local 12:42 12:52 13:04 13:14 13:15 13:24 14:15 14:20 14:59	63 N171310 17 S.Fern'do Valley Limited 13:10 13:19 13:28	NB 64 N161333 16 Central Valley Limited 13:33	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54 14:14 14:47
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwalk 30.3 LAU L.A. Un 40.6 BUR Burbanl 51.1 SYL Sylmar 89.4 PMD Palmda 174.1 BFD Bakersf 285.4 FNO Fresno 354.4 MCD Merced	Direction → Trainse Train No. → Pattern → Service Type → Train No. → Pattern → Service Type → Dep Ope Dep Dep Dep Iel Arr Dep Arr Dep Arr Dep Arr	Reg NB et 53 N151037 → 15 S.F → Merced Local P P P P P P P P P P P P P P P P P P	NB 2 N160903 16 Central Valley Limited 9:03	NB M1 N040842 4 4 All-Stop Local 8:42 8:52 9:04 9:06 9:15 9:24 10:15 10:20	NB 3 N170910 17 S.Fern'dc Valley Limited 9:10 9:19 9:29	NB 6 N60933 166 Central Valley Limited	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45 9:54 10:14 10:47 10:55	NB 7 170740 177 S.Fern'do Valley Limited 9:40 9:58	5 N010935 1 Bay Area Limited 9:35 9:45 9:56	NB 56 N151137 15 S.F Merced	NB 10 N16103 166 Central Valley Limited 10:03 10:58 11:37	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:14 10:15 10:24 11:15 11:20	4 N171010 17 S.Fern'do Valley Limited 10:10 10:19	NB 14 M16103 16 Central Valley Limited 10:33 11:28 12:07	NB 9 N141012 144 L.A Merced Local 10:12 10:34 10:36 10:45 10:55 11:14 11:55 12:34	NB 15 N171040 17 S.Fern'do Valley Limited 10:40 10:49 10:58	13 N011035 1 Bay Area Limited 10:35 10:45 10:56	NB 1 1N151237 15 S.F Merced Local	NB 18 N161103 16 Central Valley Limited 11:03	NB M5 N041042 4 All-Stop Local 10:42 10:52 11:04 11:14 11:15 11:24 12:15 12:20	NB 19 N17110 17 S.Fern'do Valley Limited 11:10 11:19	NB 22 N161133 16 Central Valley Limited 11:33	NB 17 N141112 14 L.A Merced Local 11:12 11:34 11:36 11:45 11:54 12:14 12:47 12:55	NB 23 N1711140 17 S.Fern'do Valley Limited 11:40 11:49 11:58	21 N011135 1 Bay Area Limited 11:35 11:45 11:56	NB 9 N151337 15 S.F Merced Local	NB M3 N16123 16 Central Valley Limited 12:03 12:58 13:37	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:14 12:15 12:24 13:15 13:20	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28	N161233 16 Central Valley Limited 12:33	25 N141212 14 L.A Merced Local 12:12 12:34 12:36 12:45 12:54 13:14 13:47 13:55	NB M4 N171240 17 S.Fern'dd Valley Limited 12:40 12:49 12:58	16 N011239 1 0 Bay Area Limitec 12:35 12:45 12:56 13:00	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley Limited 13:03	N041242 4 All-Stop Local 12:42 12:52 13:04 13:14 13:15 13:24 14:15 14:20	63 N171310 17 S.Fern'do Valley Limited 13:10 13:19 13:28	NB 64 N161333 16 Central Valley Limited	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54 14:14 14:47 14:55
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwall 30.3 LAU L.A. Un 40.6 BUR Burbanl 51.1 SYL Sylmar 89.4 PMD Palmda 174.1 BFD Bakersf 285.4 FNO Fresno	Direction → Trainse Train No. → Pattern → Service Type → Dep C Dep ion Sta. Arr Dep Arr Dep Arr Dep Arr	Reg NB et 53 N151037 → 15 S.F → Merced Local P P P P P P P P P P P P P P P P P P	NB 2 160003 16 Central Valley Limited 9:03 9:58 10:37 ▼	NB M1 N040842 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 10:20 10:59 ↓	NB 3 N170011 177 S.Fern'dc Valley Limited 9:10 9:19 9:29 9:49	NB 6 N16093 16 Central Valley Limited 9:33 10:28 11:07	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45 9:54 10:14 10:47 10:55	NB 7 7 N170940 17 S.Fern'do Valley Limited 9:40 9:49 9:58 10:18	5 N010935 1 Bay Area Limited 9:35 9:45 9:56 10:00	NB 56 N151137 15 S.F Merced Local	NB 10 N16103 166 Central Valley Limited 10:03 10:58 11:37	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:14 10:15 11:20 11:59 ↓	4 N171017 S.Fern'do Valley Limited 10:10 10:19 10:28	NB 14 N161033 16 Central Valley Limited 10:33 11:28	NB 9 N141012 144 L.A Merced Local 10:12 10:34 10:36 10:45 10:55 11:14 11:55 12:34	NB 15 N171040 17 S.Fern'do Valley Limited 10:40 10:49 10:58	13 N011035 1 Bay Area Limited 10:35 10:45 10:56 11:00	NB 1 N151237 15 S.F Merced Local	NB 18 N161103 16 Central Valley Limited 11:03 11:58	NB M5 M5 M5 M6	NB 19 N771110 17 S.Fern'do Valley Limited 11:10 11:19 11:28	NB 22 N161133 16 Central Valley Limited 11:33 12:28 13:07	NB 17 N141112 14 L.A Merced Local 11:12 11:34 11:36 11:45 11:54 12:14 12:47 12:55	NB 23 N1711140 17 S.Fern'do Valley Limited 11:40 11:49 11:58 12:18	21 N011135 1 Bay Area Limited 11:35 11:45 11:56 12:00	NB 9 N15137 15 S.F Merced Local	NB M3 N16123 12:03 12:58 13:37	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:06 12:14 12:15 12:24 13:15 13:20 13:59 ↓	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28	16 Central Valley Limited 12:33 13:28	25 N141212 14 L.A Merced Local 12:12 12:34 12:36 12:45 12:54 13:14 13:47 13:55	NB M4 N171240 17 S.Fern'dt Valley Limited 12:40 12:49 12:58	16 N011235 1 0 Bay Area Limited 12:35 12:45 13:00	NB 17 N151437 15 S.F Merced Local	43 N161303 16 Central Valley Limited 13:03 13:58	N041242 4 All-Stop Local 12:42 13:04 13:06 13:14 13:15 13:24 14:15 14:20 14:59	63 N171310 17 S.Ferrido Valley Limited 13:10 13:19 13:28	NB 64 N161333 16 Central Valley Limited 13:33	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54 14:14 14:47 14:55
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwall 30.3 LAU L.A. Un 40.6 BUR Burbanl 51.1 SYL Sylmar 89.4 PMD Palmda 174.1 BFD Bakersf 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jos	Direction → Trainse Train No. → Pattern → Service Type → Train No. → Pattern → Service Type → Train No. → Pattern → Service Type → Train No. → Dep K Dep ion Sta. Arr Dep	Reg NB et 53 N151037 15 S.F Merced Local P P P P P P P P P P P P P P P P P P P	NB 2 1160903 16 Central Valley Limited 9:03 9:58 10:37 \$\displaystyle{1}\$ 11:18 11:34	NB M1 N040842 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 10:20 10:59 11:40 11:56	NB 3 N17001 177 S.Fern'dd Valley Limited 9:10 9:19 9:29 9:49	NB 6 N160933 16 Central Valley Limited 9:33 10:28 11:07 11:48 12:04	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45 9:54 10:14 10:47 10:55	NB 7 N170940 177 S.Fern'do Valley Limited 9:40 9:49 9:58 10:18	5 N010935 1 Bay Area Limited 9:35 9:45 9:56 10:00	NB 56 N151137 15 S.F Merced Local 11:37 12:12 12:28	NB 10 Ni 100 Ni	NB M2 N040942 4 4 All-Stop Local 9:52 10:04 10:06 10:14 10:15 11:20 11:59 ↓ 12:40 12:56	40 N171010 177 S.Fern'do Valley Limited 10:10 10:19 10:28 10:48	NB 14 N161033 166 Central Valley Limited 10:33 11:28 12:07	NB 9 N141012 144 L.A Merced Local 10:12 10:34 10:36 10:45 10:55 11:14 11:55 12:34	NB 15 N171040 177 S.Fern'do Valley Limited 10:40 10:58 11:18	13 N011035 1 Bay Area Limited 10:35 10:45 10:56 11:00	NB 1 N151237 15 S.F Merced Local 12:37 13:12 13:28	NB 18 N161103 16 Central Valley Limited 11:03 11:58 12:37 ↓ 13:18 13:34	NB M5 N041042 4 All-Stop Local 10:42 10:52 11:04 11:16 11:14 11:15 11:24 12:15 12:20 12:59	NB 19 N771110 17 S.Fern'do Valley Limited 11:10 11:19 11:28 11:48	NB 22 N161133 16 Central Valley Limited 11:33 12:28 13:07 13:48 14:04	NB 17 N141112 14 L.A Merced Local 11:12 11:34 11:36 11:45 11:54 12:14 12:47 12:55	NB 23 N171140 17 S.Fern'do Valley Limited 11:49 11:58 12:18 14:01 14:17	21 N011135 1 Bay Area Limited 11:35 11:45 11:56 12:00	NB 9 N15137 15 S.F Merced Local	NB M3 N16123 16 Central Valley Limited 12:03 12:58 13:37	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:15 12:24 13:15 13:20 13:59 ↓	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28 12:48	16 Central Valley Limited 12:33 13:28 14:07 ↓ 14:48 15:04	25 N141212 14 L.A Merced Local 12:12 12:34 12:36 12:45 12:54 13:14 13:47 13:55	NB M4 N171240 177 S.Fern'do Valley Limited 12:40 12:49 12:58 13:18 15:01 15:17	16 N011235 1 1 0 Bay Area Limited 12:35 12:45 12:56 13:00 1 15:04 15:20	NB 177 171 15 S.F Merced Local	13:03 13:58 14:37 13:58	N041242 4 All-Stop Local 12:42 12:52 13:04 13:15 13:24 14:15 14:20 14:59 ↓	63 N171310 17 S.Fern'do Valley Limited 13:10 13:19 13:28 13:48	NB 64 N161333 16 Central Valley Limited 13:33 14:28 15:07	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54 14:14 14:47 14:55 15:34
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwall 30.3 LAU L.A. Un 40.6 BUR Burbanl 51.1 SYL Sylmar 89.4 PMD Palmda 174.1 BFD Bakersf 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jos 450.5 RWC Redwood	Direction → Trainse Train No. → Pattern → Service Type → Train No. → Pattern → Service Type → Dep Arr Dep	Reg NB et 53 N151037 15 S.F Horocal Local P P P P P P P P P P P P P P P P P P P	NB 2 116903 16 Central Valley Limited 9:03 9:58 10:37 11:18 11:34 11:48	NB M1 N80842 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 10:20 10:59 11:40 11:56 12:10	NB 3 N17001 177 S.Fern'dd Valley Limited 9:10 9:19 9:29 9:49 11:30 11:46 11:59	NB 6 N160933 16 Central Valley Limited 9:33 10:28 11:07	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45 9:54 10:14 10:47 10:55	NB 7 N170940 177 S.Fern'do Valley Limited 9:40 9:49 9:58 10:18 12:01 12:17 12:30	5 N010935 1 Bay Area Limited 9:35 9:45 9:56 10:00	NB 56 N151137 15 S.F Merced Local 11:37 12:12 12:28 12:43	NB 10 N16003 16 Central Valley Limited 10:03 10:58 11:37	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:14 10:15 11:20 11:59 ↓ 12:40 12:56 13:10	40 N171010 1717 S.Fern'do Valley Limited 10:10 10:19 10:28 10:48	NB 14 N16103 16 Central Valley Limited 10:33 11:28 12:07	NB 9 N141012 144 L.A Merced Local 10:12 10:34 10:36 10:45 10:55 11:14 11:55 12:34	NB 15 N171040 177 S.Fern'do Valley Limited 10:40 10:58 11:18 13:01 13:17 13:30	13 N011035 1 Bay Area Limited 10:35 10:45 10:56 11:00 13:04 13:20 13:34	NB 1 NB 1 NI51237 15 S.F Merced Local 12:37 13:12 13:28 13:43	NB 18 N161103 16 Central Valley Limited 11:03 11:58 12:37 13:18 13:34 13:48	NB M5 N041042 4 4 4 4 10:45	NB 19 17 S.Fern'do Valley Limited 11:10 11:128 11:48 13:29 13:45 13:58	NB 22 N161133 16 Central Valley Limited 11:33 12:28 13:07 13:48 14:04 14:18	NB 17 N141112 14 L.A Merced Local 11:12 11:34 11:36 11:45 11:54 12:14 12:47 12:55	NB 23 N171140 17 S.Fern'do Valley Limited 11:40 11:49 11:58 12:18	21 N011135 1 Bay Area Limited 11:35 11:45 11:56 12:00	NB 9 N15137 15 S.F Merced Local 13:37 14:12 14:28 14:43	NB M3 N161203 16 Central Valley Limited 12:03 12:58 13:37 14:18 14:34 14:48	8 N041142 4 All-Stop Local 11:42 12:04 12:06 12:14 12:15 12:24 13:15 13:20 13:59 ↓	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28 12:48 14:29 14:45 14:58	N161233 16 Central Valley Limited 12:33 13:28 14:07 ↓	25 N141212 14 L.A Merced Local 12:12 12:34 12:36 12:45 12:54 13:14 13:47 13:55	NB M4 N171240 17 S.Fern'do Valley Limited 12:40 12:49 12:58 13:18 15:01 15:17 15:30	16 N011238 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NB 177 15137 15 S.F Merced Local	43 N161303 16 Central Valley Limited 13:03 13:58 14:37 ↓	N041242 4 All-Stop Local 12:42 12:52 13:04 13:06 13:14 13:15 14:15 14:20 14:59 ↓	63 N171310 17 S.Ferrido Valley Limited 13:10 13:19 13:28 13:48	NB 64 N161333 16 Central Valley Limited 13:33 14:28 15:07 15:48 16:04 16:18	N141312 14 L.A Merced Local 13:12 13:22 13:34 13:36 13:45 13:54 14:14 14:47 14:55 15:34
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwall 30.3 LAU L.A. Un 40.6 BUR Burbanl 51.1 SYL Sylmar 89.4 PMD Palmda 174.1 BFD Bakersf 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jos 450.5 RWC Redwox 462.2 SFO Millbrae	Direction → Trainse Train No. → Pattern → Service Type → Service Type → Dep C Dep ion Sta. Arr Dep k Dep lel Arr Dep	Reg NB et 53 N151037 15 S.F Merced Local P P P P P P P P P P P P P P P P P P P	NB 2 11:18 11:34 11:48	NB M1 N040842 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 10:20 10:59 ↓ 11:40 11:56 12:10 12:20	NB 3 N17001 177 S.Fern'dc Valley Limited 9:10 9:19 9:29 9:49 11:30 11:46 11:59 12:08	NB 6 N16093 16 Central Valley Limited 9:33 10:28 11:07 11:48 12:04 12:18	NB 1 N140912 14 L.A Merced Local 9:12 9:22 9:34 9:36 9:45 9:54 10:14 10:47 10:55	NB 7 170940 177 S.Fern'do Valley Limited 9:40 9:49 9:58 10:18 12:01 12:17 12:30	5 N010935 1 Bay Area Limited 9:35 9:45 9:56 10:00	NB 56 NI51137 15 S.F Merced Local 11:37 12:12 12:28 12:43 12:53	NB 10 N16103 166 Central Valley Limited 10:58 11:37	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:15 10:24 11:15 11:20 11:59 ↓ 12:40 12:56 13:10 13:20	40 N171010 117 S.Fern'do Valley Limited 10:10 10:19 10:28 10:48 12:29 12:45 12:58	NB 14 M16103 16 Central Valley Limited 10:33 11:28 12:07	NB 9 N141012 144 L.A Merced Local 10:12 10:34 10:36 10:45 10:55 11:14 11:55 12:34	NB 15 N171040 17 S.Fern'do Valley Limited 10:40 10:49 10:58 11:18	13 N011035 1 Bay Area Limited 10:35 10:45 10:56 11:00 13:04 13:20 13:34	NB 1 NB 1 NI51237 15 S.F Merced Local 12:37 13:12 13:28 13:43 13:53	NB 18 N161103 16 Central Valley Limited 11:03 11:58 12:37 13:18 13:34 13:48	NB M5 N041042 4 All-Stop Local 10:42 10:52 11:04 11:06 11:14 11:15 11:24 12:15 12:20 12:59 13:40 13:56 14:10 14:20	NB 19 N771110 17 S.Fern'do Valley Limited 11:10 11:19 11:28 11:48	NB 22 N1611133 16 Central Valley Limited 11:33 12:28 13:07 13:48 14:04 14:18	NB 17 N141112 14 L.A Merced Local 11:12 11:34 11:36 11:45 11:54 12:14 12:47 12:55	NB 23 N771140 17 S.Fern'do Valley Limited 11:40 11:49 11:58 12:18 14:01 14:17 14:30	21 N011135 1 Bay Area Limited 11:35 11:45 12:00	NB 9 91 15 S.F Merced Local 13:37 14:12 14:28 14:43 14:53	NB M3 N161203 16 Central Valley Limited 12:03 12:58 13:37 14:18 14:34 14:48	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:14 12:15 12:24 13:15 13:20 13:59 ↓	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28 12:48	12:33 16 Central Valley Limited 12:33 13:28 14:07 14:48 15:04	25 N141212 14 L.A Merced Local 12:12 12:34 12:36 12:45 12:54 13:14 13:47 13:55	NB M4 N171240 17 S.Fern'di Valley Limited 12:40 12:49 12:58 13:18 15:01 15:17 15:30	16 N011235 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NB 177 151 15 S.F Merced Local 14:37 15:12 15:28 15:43 15:53	13:03 13:58 14:37 15:18 15:18 15:34	N041242 4 All-Stop Local 12:42 13:04 13:06 13:14 13:15 14:15 14:20 14:59 ↓ 15:40 15:56 16:10 16:20	63 N171310 17 S.Ferrido Valley Limited 13:10 13:19 13:28 13:48	NB 64 N161333 16 Central Valley Limited 13:33 14:28 15:07 15:48 16:04 16:18	13:12 13:12 13:22 13:34 13:36 13:45 13:54 14:14 14:47 14:55
Mile Station 0.0 ANA Anaheir 15.0 NSF Norwall 30.3 LAU L.A. Un 40.6 BUR Burbanl 51.1 SYL Sylmar 89.4 PMD Palmda 174.1 BFD Bakersf 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jos 450.5 RWC Redwood	Direction → Trainse Train No. → Pattern → Service Type → Service Type → C Dep C Dep In Dep Arr Arr Arr Arr Arr Arr Arr A	Reg NB et 53 N151037 15 S.F Horocal Local P P P P P P P P P P P P P P P P P P P	9:03 9:58 10:37 11:18 11:34 11:48 12:12	NB M1 N80842 4 All-Stop Local 8:42 8:52 9:04 9:06 9:14 9:15 10:20 10:59 11:40 11:56 12:10 12:20 12:35	NB 3 N17001 177 S.Fern'dd Valley Limited 9:10 9:19 9:29 9:49 11:30 11:46 11:59 12:08	NB 6 N160933 16 Central Valley Limited 9:33 10:28 11:07	NB 1 N140912 14 L.A Merced Local 9:12 9:34 9:36 9:45 9:54 10:14 10:47 10:55 11:34	NB 7 N170940 177 S.Fern'do Valley Limited 9:40 9:49 9:58 10:18 12:01 12:17 12:30 12:50	5 N010935 1 Bay Area Limited 9:35 9:45 9:56 10:00 12:04 12:20 12:34	NB 56 N151137 15 S.F Merced Local 11:37 12:12 12:28 12:43 12:53 13:07	NB 10 N16003 16 Central Valley Limited 10:03 10:58 11:37	NB M2 N040942 4 All-Stop Local 9:42 9:52 10:04 10:06 10:14 10:15 11:20 11:59 ↓ 12:40 12:56 13:10 13:20 13:35	40 N171010 117	NB 14 N161033 16 Central Valley Limited 10:33 11:28 12:07	NB 9 N141012 14 L.A Merced Local 10:12 10:22 10:34 10:36 10:45 10:54 11:14 11:47 11:55 12:34 12:58	NB 15 N171040 177 S.Fern'do Valley Limited 10:40 10:49 10:58 11:18 13:01 13:17 13:30 13:50	13 N011035 1 Bay Area Limited 10:35 10:45 10:56 11:00 13:04 13:20 13:34 13:53	NB 1 NB 1 NI51237 15 S.F Merced Local 12:37 13:12 13:28 13:43 13:53 14:07	NB 18 N161103 16 Central Valley Limited 11:03 11:58 12:37 13:18 13:34 13:48 14:12	NB M5 N041042 4 4 All-Stop Local 10:42 10:52 11:04 11:15 11:24 12:15 12:20 12:59	NB 19 N771110 17 S.Fern'do Valley Limited 11:10 11:19 11:28 11:48 13:29 13:45 13:58 14:18	NB 22 N161133 16 Central Valley Limited 11:33 12:28 13:07 13:48 14:04 14:18 14:14 14:18 14:14 14:18 14:14 14:18	NB 17 N141112 14 L.A Merced Local 11:12 11:34 11:36 11:45 11:54 12:14 12:47 12:55 13:34 13:58	NB 23 N171140 17 S.Fern'do Valley Limited 11:40 11:49 11:58 12:18 14:01 14:17 14:30 14:50	21 N011135 1 Bay Area Limited 11:35 11:45 11:56 12:00 14:04 14:20 14:34	NB 9 N15137 15 S.F Merced Local 13:37 14:12 14:28 14:43	NB M3 N161203 16 Central Valley Limited 12:03 12:58 13:37 14:18 14:34 14:48 15:12	8 N041142 4 All-Stop Local 11:42 11:52 12:04 12:15 12:24 13:15 13:20 13:59 ↓ 14:40 14:56 15:10 15:20 15:35	26 N171210 17 S.Fern'do Valley Limited 12:10 12:19 12:28 12:48 14:29 14:45 14:58 	12:33 16 Central Valley Limited 12:33 13:28 14:07 15:18	25 N141212 14 L.A Merced Local 12:12 12:34 12:36 12:45 12:54 13:14 13:47 13:55 14:34 14:58	NB M4 N171240 17 S.Fern'do Valley Limited 12:40 12:49 12:58 13:18 15:01 15:17 15:30 15:50	16 N011235 1 1 0 Bay Area Limitec 12:35 12:45 12:56 13:00 15:34 15:53	NB 177 15137 15 S.F Merced Local	13:03 15:18 13:18 13:58 14:37 15:18 15:34 15:48 16:12	N041242 4 All-Stop Local 12:42 12:52 13:04 13:15 13:24 14:15 14:20 14:59 ↓ 15:40 15:56 16:10 16:20 16:35	63 N171310 17 S.Ferrido Valley Limited 13:10 13:19 13:28 13:48	NB 64 N161333 16 Central Valley Limited 13:33 14:28 15:07 15:48 16:04 16:18 16:42	13:12 13:12 13:22 13:34 13:36 13:45 13:54 14:14 14:47 14:55 15:34

CALIFORNIA HIGH-SPEED RAIL

PHASE 1 TIMETABLE VARIATION SERVICE PLAN

VARIATION SERVICE	Turns from -																																					
APPENDIX B1	rums nom .		Don	Ren	Rea	Mid 1	Dog	Dog	Mid 2	Don	Peak O/T	Dog	Dook	Dook Fut	Dook O/T	Dook	Dook	Dook	Dog	Dook O/T	Dog	Dook	Dook O/T	Dook O/T	Dook	Dook	Dook	Dog	Dook O/T	Dog	Dook	Dook O/T	Dook O/T	Dook	Dook	Dook	Don	Dog D
APPENDIA BI	Direction -	→ SB	Reg SB	SB	SB	SB	Reg	Reg SB	SB	Reg	SB	Reg SB	Peak SB	Peak Ext SB	SB	SB	SB	Peak SB	SB	Peak O/T SB	SB	SB	SB	Peak O/T SB	SB	SB	Peak SB	Reg	Peak O/T SB	Reg SB	Peak SB	Peak O/T SB	SB	SB	SB	Peak SB	Reg SB	Reg R SB S
	Trainse		57	10 S011400	4	14 \$161408	M2	15 S171433	1	13	5	18 \$011500	19	22	M5	67	23	9	21	13	M3	26	41	8	70	M4	17 \$201639	16	21	43 S011700	63	64	27	24	M6	25	66	16 4
	Pattern -	→ S151347 → 15	S141505 14	1	S171403 17	16	S041415 4	17	S161438 16	S151447 15	S141605 14	1	S191503 19	S101508	S041514 4	S021530 2	S211533 21	S201539 20	S151547 15	S141705 14	S011600 1	S191603 19	S181608 18	S041614 4	S021630 2	S211633 21	20	S151647 15	S141805 14	1	S191703 19	S181708 18	S041714 4	S021730 2	S211733 21	S201739 20	S151747 :	\$141905 S01
Southbound		S.F	L.A	Bay	S.Fern'do	Central		S.Fern'do	Central	S.F	L.A	Bay	S.Fern'do	Central			S.Fern'do		S.F	L.A	Bay	S.Fern'do	Central			S.Fern'do		S.F	L.A	Bay	S.Fern'do	Central			S.Fern'do	Central		L.A B
	Service Type -			Area	Valley	Valley	All-Stop	Valley	Valley	Merced		Area	Valley	Valley		F	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	5	Valley	Valley	Merced	Merced	Area	Valley	Valley	All-Stop	F	Valley	Valley		Merced Ar
Mile Station		Local	Local	Limitea	Limited	Limited	Local	Limitea	Limited	Local	Local	Limited	Limited	Limitea	Local	Express	Limited	Limited	Local	Local	Limited	Limited	Limited	Local	Express	Limitea	Limited	Local	Local	Limited	Limited	Limited	Local	Express	Limited	Limited	Local	Local Lim
0.0 SFT S.FTrai	nsbay Der	13:47		14:00	14:03	14:08	14:15	14:33	14:38	14:47		15:00	15:03	15:08	15:14	15:30	15:33	15:39	15:47		16:00	16:03	16:08	16:14	16:30	16:33	16:39	16:47		17:00	17:03	17:08	17:14	17:30	17:33	17:39	17:47	18
14.7 SFO Millbrae	Dep	p 14:02					14:30			15:02				15:23					16:02					16:29				17:02					17:29				18:02	-
26.4 RWC Redwood		p 14:12				14:33			15:03				15:23	15:33		45.50	40.00		16:12			16:23		16:39	40.50	47.00		17:12		17:20	17:23			47.50	40.00		18:12 18:27	18
48.0 SJC San Jose 77.7 GLY Gilroy	e Dep Arr	p 14:27		14:34	14:38	14:48	14:55	15:08	15:18	15:27		15:34	15:38	15:48	16:08	15:59	16:03	16:19	16:27		16:34	16:38	16:48	17:08	16:59	17:03	17:19	17:27		17:34	17:38	17:48	18:08	17:59	18:03	18:19	18:27	18
02. 00)		p 14:43		14:50	14:53	15:04	15:11	15:23	15:34	15:43		15:50	15:53	16:04			16:20		16:43		16:50	16:53	17:04			17:20		17:43		17:50	17:53	18:04			18:20		18:43	18
187.5 MCD Merced		15:17		1	1	1	+		1	16:17		1	1	1	1		1		17:17			1	Ţ	1				18:17			1	1	1		1		19:17	
191.5 FNO Fresno	Dep Arr		15:05 15:25			Y	· ·		Y		16:05 16:25			16:44	16:55			—		17:05 17:25			17:44	17:55			—		18:05 18:25			18:44	18:55			—		19:05 19:25
191.5 FINO FIESHO	Dep		15:42			15:45	15:52		16:15		16:35							17:11		17:25			17:44	18:00			18:11		18:35				19:00			19:11		19:42
302.8 BFD Bakersfie							16:30				17:15						+			18:15						+			19:15						+			
207 4 DMD D-1: 1 1	Dep		16:12			16:24	16:35		16:54		17:20				17:39		17:34	17:50		18:20		$oldsymbol{oldsymbol{oldsymbol{eta}}}$		18:39		18:34	18:50		19:20				19:39		19:34	19:50		20:12
387.4 PMD Palmdale	e Arr Der		16:44		16:33		17:09	17:03			17:53		17:33	17:58	18:12		18:06			18:53		▼ 18:33	18:58	19:12		19:06			19:53		19:33	19.58	20:12		20:06			20:44
425.7 SYL Sylmar	Dep		17:05		16:54			17:24			18:14		17:54		18:33			18:38		19:14		18:54		19:33			19:38		20:14		19:54		20:33			20:38		21:05
436.3 BUR Burbank	Arr																																					
446.6 LAU L.A. Unio	Dep n Cto		17:14	16.50	17:03	47.0E		17:33	17:49		18:22	17,50	40.07	18:36	18:41	10:10	18:35	 40.E4		19:22	10.50	40:07	19:26	19:41	10:10	19:35	40.54		20:22	▼	20.07	20:26 20:36	20:41	20:10	20:35 20:44			21:14
440.0 LAU L.A. UNIC	n Sta. Arr Dep		17:22 17:24	16:53 16:55	17:11	17:25	17:48	17:41	17:49		18:31 18:33	17:53 17:55	18:07	18:38 18:40		18:10 18:12	10:44	18:51		19:31 19:33	18:53 18:55	19:07	19:30	19:49 19:51	19:10	19:44	19:51			19.55	20:07	20:36	20:49		20:44	20:51		21:22 20 21:24 20
461.8 NSF Norwalk	Arr		17:35				18:00				18:44	18:07			19:03	18:23				19:44	19:07			20:03	19:23				20:44					20:23				21:35 21
476.9 ANA Anaheim	Arr	r	17:46	17:17			18:10				18:54	18:17		18:59	19:13	18:34				19:54	19:17			20:13	19:34				20:54	20:17			21:13	20:34				21:46 21
	Available -	15:57	18:26	17:57	17:51	18:05	18:50	18:21	18:29	16:57	19:34	18:57	18:47	19:39	19:53	19:14	19:24	19:31	17:57	20:34	19:57	19:47	20:16	20:53	20:14	20:24	20:31	18:57	21:34	20:57	20:47	21:16	21:53	21:14	21:24	21:31	19:57	22:26 21
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	Turns from -	Mid 2	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Peak NB	Reg NB	Peak NB	Peak NB	Peak NB	Peak NB	Peak O/T NB	Reg NB	Reg NB	Peak NB	Peak NB	Reg NB	Peak NB	Peak NB	Peak NB	Peak O/T NB	Reg NB	Reg NB	Peak NB	Peak Ext NB	Reg NB	Peak NB	Peak NB	Peak NB	Peak O/T NB	Reg R
	Direction ÷	Mid 2 → NB et M6	NB 24	NB 25	NB 66	NB 42	NB 47	NB 68	NB 65	NB 44	NB 61	NB 62	NB 50	NB 46	NB 52	NB 11	NB 71	NB 48	NB 69	NB 65	NB 45	NB 73	NB 74	NB 51	NB 12	NB 75	NB 53	NB 72	49	NB 69	NB 3	NB 20	NB 55	NB 6	NB 7	NB 56	NB 2	NB N
	Direction -: Trainse Train No:	Mid 2 → NB et M6 → N171340	NB	NB 25 N151537	NB 66	NB 42	NB 47 N171410	NB	NB 65 N141412	NB	NB 61	NB 62 N151634	NB 50 N191502	NB 46 N041442	NB 52 N181507	NB	NB 71 N201533	NB 48 N211535	NB 69 N141517	NB 65 N151734	NB	NB 73 N191602	NB 74 N181607	NB 51	NB	NB 75 N201633	NB 53 N211635	NB 72 N141617	49	NB 69 N151834	NB	NB 20 N101642	NB 55	NB 6	NB 7 N201733	NB 56 N211735	NB 2 N141717 I	NB N 72 5 N151934 N01
Northbound	Direction ÷	Mid 2 → NB et M6 → N171340	NB 24 N011335	NB 25	NB 66	NB 42	NB 47	NB 68 N161433	NB 65 N141412 14	NB 44	NB 61 N011435	NB 62 N151634 15	NB 50	NB 46 N041442 4	NB 52	NB 11	NB 71 N201533 20	NB 48	NB 69 N141517 14	NB 65	NB 45 N011535	NB 73	NB 74 N181607	NB 51 N041546	NB 12	NB 75 N201633 20	NB 53 N211635 21	NB 72 N141617 14	49	NB 69 N151834	NB 3	NB 20 N101642 10	NB 55	NB 6	NB 7	NB 56 N211735 21	NB 2 N141717 I	NB N
<u>Northbound</u>	Direction -: Trainse Train No:	Mid 2 → NB et M6 → N171340 → 17 S.Fern'do ∨ Valley	NB 24 N011335 1 Bay Area	NB 25 N151537 15	NB 66 N161403	NB 42 N041342 4 All-Stop	NB 47 N171410	NB 68 N161433	NB 65 N141412 14	NB 44 N171440 17	NB 61 N011435	NB 62 N151634 15	NB 50 N191502 19	NB 46 N041442 4 All-Stop	NB 52 N181507 18 Central Valley	NB 11 N021505 2	NB 71 N201533 20 Central Valley	NB 48 N211535 21 S.Fern'do Valley	NB 69 N141517 14 L.A Merced	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area	NB 73 N191602 19 S.Fern'do Valley	NB 74 N181607	NB 51 N041546 4 All-Stop	NB 12 N021605 2	NB 75 N201633 20 Central Valley	NB 53 N211635 21 S.Fern'do Valley	NB 72 N141617 14	49 N011635 1	NB 69 N151834	NB 3 N191702 19	NB 20 N101642 10	NB 55 N041646 4 All-Stop	NB 6 N021705 2	NB 7 N201733 20 Central Valley	NB 56 N211735 21 S.Fern'do Valley	NB 2 N141717 I 14 L.A Merced I	NB N 72 5 N151934 N01 15 S.F B Merced Ar
	Direction : Trainse Train No. : Pattern :	Mid 2 → NB et M6 → N171340 → 17 S.Fern'do	NB 24 N011335 1 Bay	NB 25 N151537 15 S.F	NB 66 N161403 16 Central	NB 42 N041342 4	NB 47 N171410 17 S.Fern'do	NB 68 N161433	NB 65 N141412 14 L.A	NB 44 N171440 17 S.Fern'do	NB 61 N011435 1 Bay Area	NB 62 N151634 15 S.F	NB 50 N191502 19 S.Fern'do	NB 46 N041442 4 All-Stop	NB 52 N181507 18 Central Valley	NB 11 N021505 2	NB 71 N201533 20 Central	NB 48 N211535 21 S.Fern'do Valley	NB 69 N141517 14 L.A	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area	NB 73 N191602 19 S.Fern'do	NB 74 N181607 18 Central	NB 51 N041546 4 All-Stop	NB 12	NB 75 N201633 20 Central Valley	NB 53 N211635 21 S.Fern'do Valley	NB 72 N141617 14 L.A	49 N011635 1 Bay	NB 69 N151834 15 S.F	NB 3 N191702 19 S.Fern'do	NB 20 N101642 10 Central	NB 55 N041646 4 All-Stop	NB 6 N021705 2	NB 7 N201733 20 Central Valley	NB 56 N211735 21	NB 2 N141717 I 14 L.A Merced I	NB N 72 5 V151934 N01 15 S.F B
Mile <u>Station</u>	Direction -: Trainso Train No: Pattern -: Service Type -:	Mid 2 NB M6 N171340 17 S.Fern'do Valley Limited	NB 24 N011335 1 Bay Area Limited	NB 25 N151537 15 S.F Merced	NB 66 N161403 16 Central Valley	NB 42 N041342 4 All-Stop Local	NB 47 N171410 17 S.Fern'do Valley	NB 68 N161433 16 Central Valley	NB 65 N141412 14 L.A Merced Local	NB 44 N171440 17 S.Fern'do Valley Limited	NB 61 N011435 1 Bay Area Limited	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley	NB 46 N041442 4 All-Stop Local	NB 52 N181507 18 Central Valley	NB 11 N021505 2 Express	NB 71 N201533 20 Central Valley	NB 48 N211535 21 S.Fern'do Valley	NB 69 N141517 14 L.A Merced Local	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited	NB 73 N191602 19 S.Fern'do Valley	NB 74 N181607 18 Central Valley	NB 51 N041546 4 All-Stop Local	NB 12 N021605 2 Express	NB 75 N201633 20 Central Valley	NB 53 N211635 21 S.Fern'do Valley	NB 72 N141617 14 L.A Merced Local	N011635 1 Bay Area Limited	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Fern'do Valley	NB 20 N101642 10 Central Valley Limited	NB 55 N041646 4 All-Stop Local	NB 6 N021705 2 Express	NB 7 N201733 20 Central Valley	NB 56 N211735 21 S.Fern'do Valley	NB 2 N141717 I 14 L.A Merced I Local	NB
	Direction -: Trainso Train No: Pattern -: Service Type -:	Mid 2 NB M6 N171340 17 S.Fern'do Valley Limited	NB 24 N011335 1 Bay Area	NB 25 N151537 15 S.F Merced	NB 66 N161403 16 Central Valley	NB 42 N041342 4 All-Stop	NB 47 N171410 17 S.Fern'do Valley	NB 68 N161433 16 Central Valley	NB 65 N141412 14 L.A Merced	NB 44 N171440 17 S.Fern'do Valley Limited	NB 61 N011435 1 Bay Area	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley	NB 46 N041442 4 All-Stop	NB 52 N181507 18 Central Valley	NB 11 N021505 2	NB 71 N201533 20 Central Valley	NB 48 N211535 21 S.Fern'do Valley	NB 69 N141517 14 L.A Merced	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area	NB 73 N191602 19 S.Fern'do Valley	NB 74 N181607 18 Central Valley	NB 51 N041546 4 All-Stop Local	NB 12 N021605 2	NB 75 N201633 20 Central Valley	NB 53 N211635 21 S.Fern'do Valley	NB 72 N141617 14 L.A Merced Local	49 N011635 1 Bay Area	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Fern'do Valley	NB 20 N101642 10 Central Valley Limited	NB 55 N041646 4 All-Stop Local	NB 6 N021705 2 Express	NB 7 N201733 20 Central Valley	NB 56 N211735 21 S.Fern'do Valley	NB 2 N141717 I 14 L.A Merced I	NB N 72 5 N151934 N01 15 S.F B Merced Ar
Mile <u>Station</u> 0.0 ANA Anaheim	Direction = Trainse Train No. = Pattern = Service Type = Dep Dep n Sta. Arr	Mid 2 NB Het M6 N171340 T7 S.Fern'do Valley Limited	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 N151537 15 S.F Merced	NB 66 N161403 16 Central Valley Limited	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04	NB 47 N171410 17 S.Fern'do Valley Limited	NB 68 N161433 16 Central Valley Limited	NB 65 N141412 14 L.A Merced Local 14:12 14:22 14:34	NB 44 N171440 17 S.Fern'do Valley Limited	NB 61 N011435 1 Bay Area Limited 14:35 14:45	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04	NB 52 N181507 18 Central Valley Limited	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited	NB 48 N211535 21 S.Fern'do Valley Limited	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited	NB 74 N181607 18 Central Valley Limited	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited	NB 53 N211635 21 S.Fern'do Valley Limited	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Fern'do Valley Limited	NB 20 N101642 10 Central Valley Limited 16:52 17:04	NB 55 N041646 4 All-Stop Local 16:46 16:56 17:08	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 N201733 20 Central Valley Limited	NB 56 N211735 21 S.Fern'do Valley Limited	NB 2 N141717 1 14 L.A Merced 1 Local 17:17 17:27 17:39	NB 72 55 NO1 15 S.F B Merced Local Lim 17 17 17 17
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unio	Direction - Trainse Train No Pattern - Service Type - Deg Deg n Sta. Arr	Mid 2 NB NB NH NB NT71340 17 S.Fern'do Valley Limited	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 N151537 15 S.F Merced	NB 66 N161403 16 Central Valley Limited	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:06	NB 47 N171410 17 S.Fern'do Valley Limited	NB 68 N161433 16 Central Valley Limited	NB 65 N141412 14 L.A Merced Local 14:12 14:22 14:34 14:36	NB 44 N171440 17 S.Fern'do Valley Limited	NB 61 N011435 1 Bay Area Limited 14:35 14:45	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04 15:06	NB 52 N181507 18 Central Valley Limited	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited	NB 48 N211535 21 S.Fern'do Valley Limited	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited	NB 74 N181607 18 Central Valley Limited	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08 16:10	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited	NB 53 N211635 21 S.Fern'do Valley Limited	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Fern'do Valley Limited	NB 20 N101642 10 Central Valley Limited 16:42 16:52 17:04 17:06	NB 55 N041646 4 All-Stop Local 16:46 16:56 17:08 17:10	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 N201733 20 Central Valley Limited	NB 56 N211735 21 S.Fern'do Valley Limited	NB 2 N141717 1 14 L.A Merced 1 Local 17:17 17:27 17:39 17:41	NB 72 5 1 15 15 15 15 15 15 15 15 15 15 15 15
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unio 40.6 BUR Burbank	Direction = Trains No. = Pattern = Service Type = Dep Dep n Sta. Arr Dep Dep	Mid 2 NB et M6 N171340 17 S.Fern'do Valley Limited p 13:40 p 13:49	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 N151537 15 S.F Merced	NB 66 N161403 16 Central Valley Limited	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:06 14:14	NB 47 N171410 17 S.Fern'do Valley Limited	NB 68 N161433 16 Central Valley Limited	NB 65 N141412 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45	NB 44 N171440 17 S.Fern'do Valley Limited	NB 61 N011435 1 Bay Area Limited 14:35 14:45	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04	NB 52 N181507 18 Central Valley Limited 15:07 15:16	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited	NB 48 N211535 21 S.Fern'do Valley Limited	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:50	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited	NB 74 N181607 18 Central Valley Limited	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited	NB 53 N211635 21 S.Fern'do Valley Limited	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Fern'do Valley Limited	NB 20 N101642 10 Central Valley Limited 16:42 16:52 17:04 17:06 17:15	NB 55 N041646 4 All-Stop Local 16:46 16:56 17:08	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 N201733 20 Central Valley Limited	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44	NB 2 N141717 14 L.A Merced 1 Local 17:17 17:27 17:39 17:41 17:50	NB 72 55 NO1 15 S.F B Merced Local Lim 17 17 17 17
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unio	Direction = Train No. = Train No. = Pattern = Service Type = Dep Dep In Sta. Arr Dep Dep Dep Dep Dep Dep Dep Dep Dep	Mid 2 NB et M6 N171340 17 S.Fern'do Valley Limited p 13:40 p 13:49 p 13:58	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 N151537 15 S.F Merced	NB 66 N161403 16 Central Valley Limited	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:04 14:15	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28	NB 68 N161433 16 Central Valley Limited	NB 65 N141412 14.A Merced Local 14:12 14:22 14:34 14:34 14:35	NB 44 N17140 177 S.Fern'do Valley Limited 14:49 14:58	NB 61 N011435 1 1 D Bay Area Limited 14:35 14:45 14:56	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04 15:04 15:15	NB 52 N181507 18 Central Valley Limited	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:50	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15	NB 74 N181607 18 Central Valley Limited 16:07 16:16	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:18	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited	NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:44 16:53	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 16:59	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Ferndo Valley Limited 17:02 17:15	NB 20 N101642 10 Central Valley Limited 16:42 17:04 17:06 17:15	NB 55 N041646 4 All-Stop Local 16:46 16:56 17:08 17:18 17:19	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 N201733 20 Central Valley Limited	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53	NB 2 N141717 14 L.A Merced Local 17:17 17:27 17:39 17:41 17:50 17:59	NB 72 55 NO1 15 S.F B Merced Local Lim 17 17 17 17
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale	Direction = Trains No. = Train No. = Pattern = Service Type = Dep Dep Dep Dep Dep Dep Dep Dep Dep De	Mid 2 NB et M6 N171340 17 S.Fern'do Valley Limited P 13:40 p 13:49 p 13:58 f 14:18	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 N151537 15 S.F Merced	NB 66 N161403 16 Central Valley Limited	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:06 14:14 14:15	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19	NB 68 N161433 16 Central Valley Limited	NB 65 NH1412 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45 14:54 15:14	NB 44 N171440 17 S.Fern'do Valley Limited	NB 61 N011435 1 1 D Bay Area Limited 14:35 14:45 14:56	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04 15:06 15:14 15:15	NB 52 N181507 18 Central Valley Limited	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited	NB 48 N211535 21 S.Fern'do Valley Limited	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:50 15:59	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15	NB 74 N181607 18 Central Valley Limited	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:18 16:19	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited	NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:44 16:53	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:20	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Ferndo Valley Limited 17:02 17:15	NB 20 N101642 10 Central Valley Limited 16:42 16:52 17:04 17:06 17:15	NB 55 N041646 4 All-Stop Local 16:46 16:56 17:08 17:10 17:18 17:19	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 N201733 20 Central Valley Limited	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53	NB 2 N141717 14 L.A Merced Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20	NB 72 55 NO1 15 S.F B Merced Local Lim 17 17 17 17
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unio 40.6 BUR Burbank 51.1 SYL Sylmar	Direction -: Trains No: Pattern -: Service Type -: Deg Deg Deg Deg Deg Deg Deg Deg Deg De	Mid 2 NB et M6 N171340 NIBy 177 S.Fern'do Valley Limited 13:40 p 13:49 p 13:58 p 14:18	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 N151537 15 S.F Merced	NB 66 N16103 16 Central Valley Limited	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:15 14:24 15:15	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28	NB 68 NI51133 16 Central Valley Limited	NB 65 NH1412 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45 15:14	NB 44 N17140 177 S.Fern'do Valley Limited 14:49 14:58	NB 61 N011435 1 1 D Bay Area Limited 14:35 14:45 14:56	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04 15:15 15:24 16:15	NB 52 N181507 18 Central Valley Limited 15:07 15:16 15:40	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited 15:33 15:46	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:50 15:59	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40	NB 51 N041546 4 All-Stop Local 15:46 16:08 16:10 16:18 16:19 16:28 17:19	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited 16:33 16:46	NB 53 N211632 261 S.Fern'do Valley Limited 16:35 16:44 16:53 17:14	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:20 17:50	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Ferndo Valley Limited 17:02 17:15	NB 20 N101642 10 Central Valley Limited 16:42 17:04 17:06 17:15	NB 55 N041646 4 All-Stop Local 16:46 16:56 17:08 17:10 17:18 17:28 18:19	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 7 820 Central Valley Limited 17:33 17:46	NB 56 N211735 21 S.Ferndo Valley Limited 17:35 17:44 17:53	NB 2 N141717 1 14 L.A Merced 1 Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50	NB 72 55 NO1 15 S.F B Merced Local Lim 17 17 17 17
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale	Direction = Trains No. = Train No. = Pattern = Service Type = Dep Dep Dep Dep Dep Dep Dep Dep Dep De	Mid 2 NB et M6 N171340 S.Fern'do Valley Limited 13:40 p 13:49 p 13:58 p 14:18	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 N151537 15 S.F Merced	NB 66 N16103 16 Central Valley Limited	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:06 14:14 14:15	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28	NB 68 NI51133 16 Central Valley Limited	NB 65 NH1412 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45 14:54 15:14	NB 44 N17140 177 S.Fern'do Valley Limited 14:49 14:58	NB 61 N011435 1 1 D Bay Area Limited 14:35 14:45 14:56	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04 15:06 15:14 15:15	NB 52 N181507 18 Central Valley Limited 15:07 15:16 15:40	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited 15:33 15:46	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:50 15:59	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:18 16:19	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited 16:33 16:46	NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:44 16:53	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:20 17:50	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Ferndo Valley Limited	NB 20 N101642 10 Central Valley Limited 16:42 17:04 17:06 17:15	NB 55 N041646 4 All-Stop Local 16:46 16:56 17:08 17:10 17:18 17:19	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 7 820 Central Valley Limited 17:33 17:46	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53	NB 2 N141717 1 14 L.A Merced 1 Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50	NB 72 55 NO1 15 S.F B Merced Local Lim 17 17 17 17
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfie 285.4 FNO Fresno	Direction - Trains Train No Pattern - Service Type - Deg	Mid 2 NB et M6 N171340 S.Fern'do Valley Limited p p 13:40 p 13:49 p 13:58	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 N151537 15 S.F Merced	NB 66 N16103 16 Central Valley Limited	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:15 14:24 15:15	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28	NB 68 N161433 16 Central Valley Limited	NB 65 N14142 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45 14:54 15:14 15:47 15:55 16:34	NB 44 N17140 1717 S.Fern'do Valley Limited 14:49 14:58	NB 61 N011435 1 1 D Bay Area Limited 14:35 14:45 14:56	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N011442 4 All-Stop Local 14:42 14:52 15:04 15:16 15:14 16:15 16:20	NB 52 N181507 18 Central Valley Limited 15:07 15:16 15:40	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited 15:33 15:46	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:59 16:20 16:50 16:54 17:33	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40	NB 51 N041546 4 All-Stop Local 15:46 16:08 16:10 16:18 16:19 16:28 17:19	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited 16:33 16:46	NB 53 N211635 21 S.Fern'do Valley Limited 16:53 17:14 17:46	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:50 17:54 18:33	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Ferndo Valley Limited	NB 20 N101642 10 Central Valley Limited 16:52 17:04 17:06 17:15 17:39	NB 55 No41646 4 4 All-Stop Local 16:46 16:56 17:08 17:19 17:28 18:19 18:24	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 7 820 Central Valley Limited 17:33 17:46	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53 18:14	NB 2 N141717 14 L.A Merced Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50 18:54 19:33	NB 72 55 NO1 15 S.F B Merced Local Lim 17 17 17 17
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unio 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfie	Direction = Trains No. = Train No. = Pattern = Service Type = Dep Dep On Sta. Arr Dep Dep Dep Dep Dep Arr Dep Arr	Mid 2 NB et M6 N171340 17 S.Fern'do Valley Limited P 13:40 P 13:49 P 13:58 P 14:18	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 Nt51537 15 S.F Merced Local	NB 66 N16103 16 Central Valley Limited 14:03 14:58 15:37	NB 42 N041342 4 All-Stop Local 13:42 14:04 14:15 14:24 15:15 15:20 15:59	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28	NB 68 NI61433 16 Central Valley Limited 14:33	NB 65 N141412 14 L.A Merced Local 14:12 14:22 14:34 14:45 14:45 15:14 15:47 15:55	NB 44 N17140 1717 S.Fern'do Valley Limited 14:49 14:58	NB 61 N011435 1 1 D Bay Area Limited 14:35 14:45 14:56	NB 62 Nt51634 15 S.F Merced Local	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N011442 4 All-Stop Local 14:42 14:52 15:04 15:16 15:14 16:15 16:20	NB 52 N181507 18 Central Valley Limited 15:07 15:16 15:40	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited 15:33 15:46	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53	NB 69 N141517 14 L.A. Merced Local 15:17 15:27 15:39 15:41 15:59 16:20 16:50 16:54	NB 65 N151734 15 S.F Merced Local	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40	NB 51 No41546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:28 17:19 17:24	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited 16:33 17:34	NB 53 N211635 21 S.Fern'do Valley Limited 16:53 17:14 17:46	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 16:59 17:20 17:50 17:54	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced Local	NB 3 N191702 19 S.Ferndo Valley Limited	NB 20 N101642 10 Central Valley Limited 16:52 17:04 17:06 17:15 17:39	NB 55 N041646 4 4 All-Stop Local 16:46 16:56 17:08 17:19 17:28 18:19 18:24 19:03	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 7 N201733 200 Central Valley Limited 17:33 17:46 18:34	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53 18:14	NB 2 N141717 14 L.A Merced Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50 18:54 19:33 19:53	NB 72 5 15 15 15 15 15 15 15 15 15 15 15 15 1
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfiel 285.4 FNO Fresno 354.4 MCD Merced	Direction Trains No Train No Pattern Service Type Service Type Dep Dep Dep Dep Dep Dep Dep Arr Dep Arr Dep Arr Dep Arr	Mid 2 NB et M6 N171340 N3 Fern'do N3 Fern'do N41194 N6 N171340 N6 N171340 N6 N171340 N6 N171340 N7	NB 24 N011335 1 Bay Area Limited 13:35 13:45 13:56	NB 25 N151537 15 S.F Merced	NB 66 N16103 16 Central Valley Limited 14:03 14:58 15:37	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:14 14:15 14:24 15:15 15:20	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28	NB 68 N161433 16 Central Valley Limited	NB 65 N14142 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45 14:54 15:14 15:47 15:55 16:34	NB 44 N17140 1717 S.Fern'do Valley Limited 14:49 14:58	NB 61 N011435 1 1 D Bay Area Limited 14:35 14:45 14:56	NB 62 N151634 15 S.F Merced	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N011442 4 All-Stop Local 14:42 14:52 15:04 15:16 15:14 16:15 16:20	NB 52 N1815 N18 S2 N1815 N18 Central Valley Limited 15:07 15:16 15:40 16:45	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited 15:33 15:46	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:59 16:20 16:50 16:54 17:33	NB 65 N151734 15 S.F	NB 45 N011535 1 Bay Area Limited 15:35 15:45	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40 17:45	NB 51 No41546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:28 17:19 17:24	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited 16:33 17:34	NB 53 N211635 21 S.Fern'do Valley Limited 16:53 17:14 17:46	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:50 17:54 18:33	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced	NB 3 N191702 19 S.Ferndo Valley Limited	NB 20 N101642 10 Central Valley Limited 16:52 17:04 17:06 17:15 17:39	NB 55 No41646 4 4 All-Stop Local 16:46 16:56 17:08 17:19 17:28 18:19 18:24	NB 6 N021705 2 Express 17:05 17:15 17:26	NB 7 7 N201733 200 Central Valley Limited 17:33 17:46 18:34	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53 18:14	NB 2 N141717 14 L.A Merced Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50 18:54 19:33 19:53	NB 72 55 NO1 15 S.F B Merced Local Lim 17 17 17 17
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfie 285.4 FNO Fresno	Direction = Trains Train No. = Pattern = Service Type = Dep Dep Dep Dep Dep Dep Dep Dep Dep De	Mid 2 NB et M6 N171340 N3 Fern'do N3 Fern'do N41194 N6 N171340 N6 N171340 N6 N171340 N6 N171340 N7	NB 24 No1132 1 1 Bay Area Limited 13:35 13:45 13:56 14:00	NB 25 Nt51537	NB 66 N161403 16 Central Valley Limited 14:03 14:58	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:16 14:14 15:15 15:20 15:59 ↓	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28	NB 68 NI5133 16 Central Valley Limited 14:33	NB 65 N14142 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45 14:54 15:14 15:47 15:55 16:34	NB 44 N171440 17 S.Fern'do Valley Limited 14:40 14:49 14:58	NB 61 N011435 1 1 D Bay Area Limited 14:35 14:45 14:56	NB 62 NI51634 15 S.F Merced Local	NB 50 N191502 19 S.Fern'do Valley Limited	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04 15:15 15:24 16:15 16:20	NB 52 N181507 18 Central Valley Limited 15:07 15:16 15:40 16:45 ↓ 17:25	NB 11 N021505 2 Express 15:05 15:15 15:26	NB 71 N201533 20 Central Valley Limited 15:33 15:46	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:59 16:20 16:50 16:54 17:33	NB 65 N151734 15 S.F Merced Local	NB 45 45 N011535 1 Bay Area Limited 15:35 15:45 15:56 15:59	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15	NB 74 NB1607 188 Central Valley Limited 16:07 16:16 16:40 17:45 ↓ 18:25	NB 51 No41546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:28 17:19 17:24	NB 12 N021605 2 Express 16:05 16:15 16:26	NB 75 N201633 20 Central Valley Limited 16:33 17:34	NB 53 N211635 21 S.Fern'do Valley Limited 16:53 17:14 17:46	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:50 17:54 18:33	49 N011635 1 Bay Area Limited 16:35 16:45 16:56	NB 69 N151834 15 S.F Merced Local	NB 3 N191702 19 S.Ferndo Valley Limited	NB 20 N101642 10 Central Valley Limited 16:52 17:04 17:06 17:15 17:39	NB 55 N041646 4 All-Stop Local 16:46 16:56 17:08 17:10 17:18 17:19 17:28 18:19 18:24 19:03 ↓	NB 6 N021705 2 Express 17:05 17:15 17:26 17:30	NB 7 7 N201733 200 Central Valley Limited 17:33 17:46 18:34	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53 18:14	NB 2 N141717 14 L.A Merced Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50 18:54 19:33 19:53	NB 72 5 15 15 15 15 15 15 15 15 15 15 15 15 1
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfie 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jose	Direction = Trains No. = Train No. = Pattern = Service Type = Dep Dep Dep Dep Arr Dep	Mid 2 NB et M6 N171340 17 S.Fern'do Valley Limited P 13:40 P 13:49 P 14:18 P 14:18 P 16:01 P 16:01	NB 24 No1135 1 1 Bay Area Limited 13:35 13:45 13:56 14:00 16:04 16:20	NB 25 N15137 15 S.F Merced Local 15:37 16:12 16:28	NB 66 N161033 16 Central Valley Limited 14:58 14:58 15:37	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:06 14:14 14:15 14:24 15:15 15:20 15:59	NB 47 17 17 17 S.Fern'do Valley Limited 14:19 14:28 14:48 16:29 16:45	NB 68 N161433 16 Central Valley Limited 14:33 15:28 16:07	NB 65 N14142 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45 14:54 15:14 15:47 15:55 16:34	NB 44 N171440 17 S.Fern'do Valley Limited 14:49 14:58 15:18 17:01 17:17	NB 61 N011435 1 Bay Area Limited 14:35 14:45 14:56 14:59	NB 62 N151634 15 S.F Merced Local	NB 500 N191502 19 S.Fern'do Valley Limited 15:02 15:15 15:36	NB 46 N011412 4 All-Stop Local 14:42 14:52 15:04 15:16 15:14 15:15 16:20 16:59	NB 52 N181507 18 Central Valley Limited 15:07 15:16 15:40 16:45 17:25 17:30 17:46	NB 11 N021505 2 Express 15:05 15:15 15:26 15:30	NB 71 N201533 20 Central Valley Limited 15:33 15:46 16:34 17:13	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53 16:14 16:46 18:00 18:16	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:59 16:20 16:50 16:54 17:33	NB 65 N151734 15 S.F Merced Local 17:34 18:09 18:25	NB 45 N01153 1 Bay Area Limited 15:35 15:45 15:56 15:59 18:03 18:19	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15 16:36	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40 17:45 ↓ 18:25 18:30 18:46	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:18 16:19 16:28 17:19 17:24 18:03	NB 12 N021605 2 Express 16:05 16:15 16:26 16:30	NB 75 N201633 20 Central Valley Limited 16:33 16:46 17:34 18:13	NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:44 16:53 17:14 17:46	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:50 17:54 18:33	49 N011635 1 1 Bay Area Limited 16:35 16:45 16:56 16:59	NB 69 N151834 15 S.F Merced Local	NB 3 N191702 19 S.Fern'do Valley Limited 17:02 17:15 17:36	NB 20 N101642 10 Central Valley Limited 16:52 17:04 17:06 17:15 18:45 19:25 19:30 19:46	NB 55 No41646 All-Stop Local 16:46 16:56 17:08 17:19 17:28 18:19 18:24 19:03	NB 6 N021705 2 Express 17:05 17:15 17:26 17:30	NB 7	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53 18:14 18:46	NB 2 N141717 14 L.A Merced Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50 18:54 19:33 19:53	NB 72 5 15 15 15 15 15 15 15 15 15 15 15 15 1
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfie 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jose 450.5 RWC Redwood	Direction = Trains No. = Train No. = Pattern = Service Type = Dep Dep Dep Dep Dep Arr Dep	Mid 2 NB et M6 N171340 17 S.Fern'do Valley Limited P P P P P P P P P P P P P P P P P P P	NB 24 N01135 1 1 Bay Area Limited 13:35 13:45 13:56 14:00 16:04 16:20 16:34	NB 25 N15137 15 S.F Merced Local 15:37 16:12 16:28 16:43	NB 66 N16103 16 Central Valley Limited 14:03 14:58 15:37 ↓	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:15 14:24 15:15 15:20 15:59 ↓ 16:40 16:56 17:10	NB 4740 177 S.Fern'do Valley Limited 14:10 14:19 14:28 14:48 16:29 16:45 16:58	NB 68 N161433 16 Central Valley Limited 14:33 15:28 16:07 16:48 17:04 17:18	NB 65 N14142 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45 14:54 15:14 15:47 15:55 16:34	NB 44 N171440 17 S.Fern'do Valley Limited 14:40 14:49 14:58 15:18	NB 61 N011435 14:45 14:56 14:59 17:03 17:19 17:33	NB 62 N151634 15 S.F Merced Local 16:34 17:09 17:25 17:40	NB 500 N191502 19 S.Fern'do Valley Limited 15:02 15:15 15:36 17:32 17:46	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04 15:06 15:14 15:15 15:24 16:15 16:20 16:59 ↓ 17:40 17:56 18:10	NB 52 N181507 18 Central Valley Limited 15:07 15:16 15:40 17:25 17:30 17:46	NB 11 N021505 2 Express 15:05 15:15 15:26 15:30	NB 71 N201533 20 Central Valley Limited 15:33 15:46 16:34 17:13 18:06 18:19	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53 16:14 16:46 18:00 18:16	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:59 16:20 16:50 16:54 17:33	NB 65 N151734 15 S.F Merced Local 17:34 18:09 18:25 18:40	NB 45 N011535 1 Bay Area Limited 15:35 15:45 15:56 15:59 18:03 18:19 18:33	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15 16:36 18:32 18:46	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40 17:45 ↓ 18:25 18:30 18:46	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:18 16:19 16:28 17:19 17:24 18:03 ↓ 18:44 19:00 19:14	NB 12 N021605 2 Express 16:05 16:15 16:26 16:30	NB 75 N201633 20 Central Valley Limited 16:33 16:46 17:34 18:13	NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:44 16:53 17:14 17:46	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:50 17:54 18:33	49 N011635 1 1 Bay Area Limited 16:35 16:45 16:56 16:59	NB 69 N151834 15 S.F Merced Local Local 18:34 19:09 19:25 19:40	NB 3 N191702 19 S.Fern'do Valley Limited 17:02 17:15 17:36 19:32 19:46	NB 20 N10164 N10	NB 55 No41646 4 4 All-Stop Local 16:46 16:56 17:08 17:19 17:28 18:19 18:24 19:03 ↓ ↓	NB 6 N021705 2 Express 17:05 17:15 17:26 17:30	NB 7	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53 18:14 18:46 20:00 20:16	NB 2 N141717 14 L.A Merced Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50 18:54 19:33 19:53	NB 72 5 15 15 15 15 15 15 15 15 15 15 15 15 1
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfie 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jose	Direction - Trains No Train No Pattern - Service Type - Service Type - Dep Dep Dep Dep Dep Dep Arr	Mid 2 NB et M6 N171340 17 S.Fern'do Valley Limited P 13:40 P 13:49 P 14:18 P 14:18 P 16:01 P 16:01	NB 24 Not1335 1 3:45 13:56 14:00 16:04 16:20 16:34	NB 25 N151537 155 S.F Merced Local 15:37 16:12 16:28 16:43 16:53	NB 66 N16103 16 Central Valley Limited 14:03 14:58 15:37 4 16:18 16:34 16:48	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:15 14:24 15:15 15:20 15:59 ↓ 16:40 16:56 17:10 17:20	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28 14:48 16:29 16:45 16:58	NB 68 N161433 16 Central Valley Limited 14:33 15:28 16:07 16:48 17:04 17:18	NB 65 N14142 14 L.A Merced Local 14:12 14:22 14:34 14:36 14:45 14:54 15:14 15:47 15:55 16:34	NB 44 N171440 17 S.Fern'do Valley Limited 14:40 14:49 14:58 15:18 17:01 17:17 17:30	NB 61 N011435 14:45 14:56 14:59 17:03 17:19 17:33	NB 62 N151634 15 S.F Merced Local 16:34 17:09 17:25 17:40 17:50	NB 500 N191502 19 S.Fern'do Valley Limited 15:02 15:15 15:36 17:32 17:46	NB 46 N041442 4 All-Stop Local 14:42 14:52 15:04 15:15 15:24 16:15 16:20 16:59 17:40 17:56 18:10 18:20	NB 52 N1815 18 Central Valley Limited 15:07 15:16 15:40	NB 11 N021505 2 Express 15:05 15:15 15:26 15:30	NB 71 N201533 20 Central Valley Limited 15:33 15:46 16:34 17:13 18:06 18:19 18:29	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53 16:14 16:46 18:00 18:16	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:59 16:20 16:50 16:54 17:33	NB 65 N151734 15 S.F Merced Local 17:34 18:09 18:25 18:40 18:50	NB 45 N011535 1 Bay Area Limited 15:35 15:45 15:56 15:59 18:03 18:19 18:33	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15 16:36 18:32 18:46	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40 17:45 18:25 18:30 18:40 19:04	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:18 16:19 16:28 17:19 17:24 18:03	NB 12 N021605 2 Express 16:05 16:15 16:26 16:30	NB 75 N201633 20 Central Valley Limited 16:33 16:46 17:34 18:13 19:06 19:19 19:29	NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:44 16:53 17:14 17:46 19:00 19:16	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:50 17:54 18:33	49 N011635 1 1 Bay Area Limited 16:35 16:45 16:56 16:59 19:03 19:19	NB 69 N151834 15 S.F Merced Local 18:34 19:09 19:25 19:40 19:50	NB 3 N191702 19 S.Fern'do Valley Limited 17:02 17:15 17:36 19:32 19:46	NB 20 N101642 10 Central Valley Limited 16:52 17:04 17:06 17:15 18:45 19:25 19:30 19:46	NB 55 N041646 4 4 All-Stop Local 16:46 16:56 17:08 17:19 17:28 18:19 18:24 19:03 ↓ 19:44 20:00 20:14 20:24	NB 6 N021705 2 Express 17:05 17:15 17:26 17:30	NB 7 7 8 17 17 17 17 17 18 18 18 18 18 18 18 19 11 18 18 18 19 11 18 18 18 18 18 18 18 18 18 18 18 18	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53 18:14 18:46	NB 2 N141717 14 L.A Merced 1 Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50 18:54 19:33 19:53	NB 72 5 15 15 15 15 15 15 15 15 15 15 15 15 1
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfie 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jose 450.5 RWC Redwood 462.2 SFO Millbrae	Direction - Trains No Train No Pattern - Service Type - Dep Dep Dep Dep Dep Dep Arr Dep	Mid 2 NB et M6 N171340 17 S.Fern'do Valley Limited P P P P P P P P P P P P P P P P P P P	NB 24 No1135 1 1 Bay Area Limited 13:35 13:45 13:56 14:00 16:04 16:20 16:34 16:53	NB 25 N15137 15 S.F Merced Local 15:37 16:12 16:28 16:43 16:53 17:07	NB 66 N161403 16 Central Valley Limited 14:03 15:37	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:06 14:14 14:15 14:24 15:15 15:20 15:59 ↓ 16:40 16:56 17:10 17:20 17:35	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28 14:48 16:29 16:45 16:58 17:18	NB 68 N161433 16 Central Valley Limited 14:33 15:28 16:07 16:48 17:04 17:18 17:42	NB 65 NI41412 14 L.A Merced Local 14:12 14:34 14:36 14:45 14:54 15:14 15:47 15:55	NB 44 N171440 17 S.Fern'do Valley Limited 14:40 14:49 14:58 15:18 17:01 17:17 17:30	NB 61 N011435 14:45 14:56 14:59 17:33 17:19 17:52	NB 62 N151634 15 S.F Merced Local 16:34 17:09 17:25 17:40 17:50 18:04	NB 500 N191502 19 S.Fern'do Valley Limited 15:02 15:15 15:36 17:32 17:46 18:06	NB 46 N011412 4 All-Stop Local 14:42 14:52 15:04 15:15 15:24 16:15 16:20 16:59 17:40 17:56 18:10 18:20 18:35	NB 52 N181507 18 Central Valley Limited 15:07 15:16 15:40 16:45 17:25 17:30 17:46 18:04 18:19	NB 11 N021505 2 Express 15:05 15:15 15:26 15:30	NB 71 N201533 20 Central Valley Limited 15:33 15:46 16:34 17:13 18:06 18:19 18:29 18:43	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53 16:14 16:46	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:50 16:50 16:50 16:54 17:33 17:53	NB 65 N151734 15 S.F Merced Local 17:34 18:09 18:25 18:40 19:04	NB 45 N011535 1 Bay Area Limited 15:35 15:45 15:56 15:59 18:33 18:19 18:33 18:52	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15 16:36 18:32 18:46 19:06	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40 17:45 ↓ 18:25 18:30 18:46 19:04 19:19	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:18 16:19 16:28 17:19 17:24 18:03 18:44 19:00 19:14 19:24 19:39	NB 12 N021605 2 Express 16:05 16:15 16:26 16:30	NB 75 N201633 20 Central Valley Limited 16:33 16:46 17:34 18:13	NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:44 16:53 17:14 17:46 19:00 19:16 19:49	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:20 17:50 17:54 18:33 18:53	49 N011635 1 1 Bay Area Limited 16:35 16:45 16:56 16:59 19:03 19:19 19:33	NB 69 N151834 15 S.F Merced Local Local 18:34 19:09 19:25 19:40 19:50 20:04	NB 3 N191702 19 S.Fern'do Valley Limited 17:02 17:15 17:36 19:32 19:46 20:06	NB 20 N101642 10 Central Valley Limited 16:42 16:52 17:04 17:06 17:15 17:39 18:45 19:25 19:30 19:46 20:04 20:19	NB 55 No41646 4 4 All-Stop Local 16:46 16:56 17:08 17:19 17:28 18:19 18:24 19:03 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	NB 6 N021705 2 Express 17:05 17:15 17:26 17:30	NB 7 7 N201733 20 Central Valley Limited 17:33 17:46 18:34 19:13	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53 18:14 18:46	NB 2 N141717 14 L.A Merced Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50 18:54 19:33 19:53	NB 72 5 115 34 19:34 20:09 20:25 20:20:50 21:04 20
Mile Station 0.0 ANA Anaheim 15.0 NSF Norwalk 30.3 LAU L.A. Unic 40.6 BUR Burbank 51.1 SYL Sylmar 89.4 PMD Palmdale 174.1 BFD Bakersfie 285.4 FNO Fresno 354.4 MCD Merced 399.2 GLY Gilroy 428.8 SJC San Jose 450.5 RWC Redwood 462.2 SFO Millbrae	Direction - Trains No Train No Pattern - Service Type - Dep Dep Dep Dep Dep Dep Arr Dep	Mid 2 NB et M6 N171340 N177 S.Fern'do Valley Limited D 13:40 D 13:49 D 13:58 D 14:18 D 16:01 D 16:01 D 16:05 D 17:20	NB 24 No1135 1 1 Bay Area Limited 13:35 13:45 13:56 14:00 16:04 16:20 16:34 16:53	NB 25 N15137 15 S.F Merced Local 15:37 16:12 16:28 16:43 16:53 17:07	NB 66 N161403 16 Central Valley Limited 14:03 15:37	NB 42 N041342 4 All-Stop Local 13:42 13:52 14:04 14:06 14:14 14:15 14:24 15:15 15:20 15:59 ↓ 16:40 16:56 17:10 17:20 17:35	NB 47 N171410 17 S.Fern'do Valley Limited 14:10 14:19 14:28 14:48 16:29 16:45 16:58 17:18	NB 68 N161433 16 Central Valley Limited 14:33 15:28 16:07 16:48 17:04 17:18 17:42	NB 65 NI41412 14 L.A Merced Local 14:12 14:34 14:36 14:45 14:54 15:14 15:47 15:55	NB 44 N171440 17 S.Fern'do Valley Limited 14:40 14:49 14:58 15:18 17:01 17:17 17:30	NB 61 N011435 14:45 14:56 14:59 17:33 17:19 17:52	NB 62 N151634 15 S.F Merced Local 16:34 17:09 17:25 17:40 17:50 18:04	NB 500 N191502 19 S.Fern'do Valley Limited 15:02 15:15 15:36 17:32 17:46 18:06	NB 46 N011412 4 All-Stop Local 14:42 14:52 15:04 15:15 15:24 16:15 16:20 16:59 17:40 17:56 18:10 18:20 18:35	NB 52 N181507 18 Central Valley Limited 15:07 15:16 15:40 16:45 17:25 17:30 17:46 18:04 18:19	NB 11 N021505 2 Express 15:05 15:15 15:26 15:30	NB 71 N201533 20 Central Valley Limited 15:33 15:46 16:34 17:13 18:06 18:19 18:29 18:43	NB 48 N211535 21 S.Fern'do Valley Limited 15:35 15:44 15:53 16:14 16:46	NB 69 N141517 14 L.A Merced Local 15:17 15:27 15:39 15:41 15:50 16:50 16:50 16:54 17:33 17:53	NB 65 N151734 15 S.F Merced Local 17:34 18:09 18:25 18:40 19:04	NB 45 N011535 1 Bay Area Limited 15:35 15:45 15:56 15:59 18:33 18:19 18:33 18:52	NB 73 N191602 19 S.Fern'do Valley Limited 16:02 16:15 16:36 18:32 18:46 19:06	NB 74 N181607 18 Central Valley Limited 16:07 16:16 16:40 17:45 ↓ 18:25 18:30 18:46 19:04 19:19	NB 51 N041546 4 All-Stop Local 15:46 15:56 16:08 16:10 16:18 16:19 16:28 17:19 17:24 18:03 18:44 19:00 19:14 19:24 19:39	NB 12 N021605 2 Express 16:05 16:15 16:26 16:30	NB 75 N201633 20 Central Valley Limited 16:33 16:46 17:34 18:13	NB 53 N211635 21 S.Fern'do Valley Limited 16:35 16:44 16:53 17:14 17:46 19:00 19:16 19:49	NB 72 N141617 14 L.A Merced Local 16:17 16:27 16:39 16:41 16:50 17:20 17:50 17:54 18:33 18:53	49 N011635 1 1 Bay Area Limited 16:35 16:45 16:56 16:59 19:03 19:19 19:33	NB 69 N151834 15 S.F Merced Local Local 18:34 19:09 19:25 19:40 19:50 20:04	NB 3 N191702 19 S.Fern'do Valley Limited 17:02 17:15 17:36 19:32 19:46 20:06	NB 20 N101642 10 Central Valley Limited 16:42 16:52 17:04 17:06 17:15 17:39 18:45 19:25 19:30 19:46 20:04 20:19	NB 55 No41646 4 4 All-Stop Local 16:46 16:56 17:08 17:19 17:28 18:19 18:24 19:03 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	NB 6 N021705 2 Express 17:05 17:15 17:26 17:30	NB 7 7 N201733 20 Central Valley Limited 17:33 17:46 18:34 19:13	NB 56 N211735 21 S.Fern'do Valley Limited 17:35 17:44 17:53 18:14 18:46	NB 2 N141717 14 L.A Merced 1 Local 17:17 17:27 17:39 17:41 17:50 17:59 18:20 18:50 18:54 19:33 19:53	NB 72 5 115 34 19:34 20:09 20:25 20:20:50 21:04 20

CALIFORNIA HIGH-SPEED RAIL

PHASE 1 TIMETABLE

VARIATION S	SERVICE PLAN																	
	Turns from →																	
APPENDIX B1		Reg	Mid 1	Reg	Reg	Mid 2	Reg	Night O/T	Reg	Reg	Night	Mid 1	Reg	Reg	Night	Reg	Reg	Night
	Direction →	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
	Trainset	42	68	44	61	62	50	66	11	52	46	71	73	74	51	3	20	55
	Train No. → Pattern →	S171803	S161808 16	S041815 4	S171833 17	S161838 16	S151847 15	S142005 14	S011900 1	S171910 17	S041914 4	S161935 16	S151947 15	S012000 1	S042014 4	S152047 15	S012100 1	S042114 4
Southbound	i ditom 7	S.Fern'do	Central		S.Fern'do	Central	S.F	L.A	Bay	S.Fern'do	-	Central	S.F	Bay		S.F	Bay	· ·
Counibouna	Service Type →	Valley	Valley	All-Stop	Valley	Valley	Merced	Merced	Area	Valley	All-Stop	Valley	Merced	Area	All-Stop	Merced	Area	All-Stop
	00.1.00 1,500 7	Limited	Limited	Local	Limited	Limited	Local	Local	Limited	Limited	Local	Limited	Local	Limited	Local	Local	Limited	Local
Mile Static	on																	
0.0 SFT	S.FTransbay Dep	18:03	18:08	18:15	18:33	18:38	18:47		19:00	19:10	19:14	19:35	19:47	20:00	20:14	20:47	21:00	21:14
14.7 SFO			18:23	18:30		18:53	19:02				19:29	19:50	20:02		20:29	21:02		21:29
	Redwood City Dep	18:23	18:33	18:40	18:53	19:03	19:12		19:20	19:30	19:39	20:00	20:12	20:20	20:39	21:12	21:20	21:39
48.0 SJC		18:38	18:48	18:55	19:08	19:18	19:27		19:34	19:45	19:54	20:15	20:27	20:34	20:54	21:27	21:34	21:54
77.7 GLY	Gilroy Arr																	
	Dep	18:53	19:04	19:11	19:23	19:34	19:43		19:50	20:00	20:10	20:31	20:43	20:50	21:10	21:43	21:50	22:10
187.5 MCD	Merced Arr			1	1	1	20:17		1		1		21:17	1		22:17	1	1
	Dep		*	*		*		20:05			*	*			•			▼
191.5 FNO	Fresno Arr							20:25										
	Dep		19:45	19:52		20:15		20:30			20:51	21:12			21:51			22:51
302.8 BFD	Bakersfield Arr			20:30				21:08										
	Dep		20:24	20:35		20:54		21:13			21:30	21:51			22:30			23:30
387.4 PMD		V			•					▼								
105 - 51 "	Dep	20:33		21:09	21:03			21:45		21:40	22:03				23:03			0:03
425.7 SYL	Sylmar Dep	20:54		21:30	21:24			22:06		22:01	22:24				23:24			0:24
436.3 BUR		04:00	Ų.	04:00	04.00	Ų.		22:44	Ų į	22:40	20.20	\downarrow		+	00.00		+	0.22
440.0 411	Dep	21:03	04-05	21:38	21:33	04:40		22:14		22:10	22:32	20.50		00.50	23:32		00.50	0:32
446.6 LAU	L.A. Union Sta. Arr	21:11	21:25	21:46	21:41	21:49		22:23	21:53	22:18	22:40	22:52		22:53	23:40		23:53	0:40
461.8 NSF	Norwalk Arr			21:48 22:00				22:25 22:37	21:55		22:42 22:55			22:55	23:42 23:55		23:55 0:07	0:42 0:55
476.9 ANA				22:10				22:46	22:17		22.55			23:17	0:04		0:07	1:04
476.9 ANA	Anaheim Arr			22:10				22:40	22:17		23:04			23:17	0:04		0:17	1:04
	Available →	21:51	22:05	22:50	22:21	22:29	20:57	23:26	22:57	22:58	23:44	23:32	21:57	23:57	0:44	22:57	0:57	1:44
	Turns for →																	
	Turns from →																	
	Turns from →	Rea	Rea	Rea	Rea	Rea	Reg	Rea	Rea	Rea	Night	Rea	Rea	Rea	Night	Night O/T	Rea	Night
	Turns from → Direction →	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Reg NB	Night NB	Reg NB	Reg NB	Reg NB	Night NB	Night O/T	Reg NB	Night NB
			NB 14															
	Direction → Trainset Train No. →	NB 4 N161803	NB 14 N171810	NB M1 N041746	NB 15 N161833	NB 10 N141812	NB 1 N171840	NB 2 N152034	NB 57 N011835	NB 19 N161913	NB M2 N041855	NB 18 N141912	NB 23 N171940	NB 67 N011935	NB 5 N041955	NB M3 N142020	NB 70 N012035	NB 13 N042055
	Direction → Trainset	NB 4 N161803 16	NB 14 N171810 17	NB M1	NB 15 N161833 16	NB 10 N141812 14	NB 1 N171840 17	NB 2 N152034 15	NB 57 N011835 1	NB 19 N161913 16	NB M2	NB 18 N141912 14	NB 23 N171940 17	NB 67 N011935 1	NB 5	NB M3 N142020 14	NB 70 N012035 1	NB 13
<u>Northbound</u>	Direction → Trainset Train No. → Pattem →	NB 4 N161803 16 Central	NB 14 N171810 17 S.Fern'do	NB M1 N041746 4	NB 15 N161833 16 Central	NB 10 N141812 14 L.A	NB 1 N171840 17 S.Fern'do	NB 2 N152034 15 S.F	NB 57 N011835 1 Bay	NB 19 N161913 16 Central	NB M2 N041855 4	NB 18 N141912 14 L.A	NB 23 N171940 17 S.Fern'do	NB 67 N011935 1 Bay	NB 5 N041955 4	NB M3 N142020 14 L.A	NB 70 N012035 1 Bay	NB 13 N042055 4
<u>Northbound</u>	Direction → Trainset Train No. →	NB 4 N161803 16 Central Valley	NB 14 N171810 17 S.Fern'do Valley	NB M1 N041746 4 All-Stop	NB 15 N161833 16 Central Valley	NB 10 N141812 14 L.A Merced	NB 1 N171840 17 S.Fern'do Valley	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area	NB 19 N161913 16 Central Valley	NB M2 N041855 4 All-Stop	NB 18 N141912 14 L.A Merced	NB 23 N171940 17 S.Fern'do Valley	NB 67 N011935 1 Bay Area	NB 5 N041955 4 All-Stop	NB M3 N142020 14 L.A Merced	NB 70 N012035 1 Bay Area	NB 13 N042055 4 All-Stop
	Direction → Trainset Train No. → Pattem → Service Type →	NB 4 N161803 16 Central	NB 14 N171810 17 S.Fern'do	NB M1 N041746 4	NB 15 N161833 16 Central	NB 10 N141812 14 L.A	NB 1 N171840 17 S.Fern'do	NB 2 N152034 15 S.F	NB 57 N011835 1 Bay	NB 19 N161913 16 Central	NB M2 N041855 4	NB 18 N141912 14 L.A	NB 23 N171940 17 S.Fern'do	NB 67 N011935 1 Bay	NB 5 N041955 4	NB M3 N142020 14 L.A	NB 70 N012035 1 Bay	NB 13 N042055 4
Mile <u>Static</u>	Direction → Trainset Train No. → Pattern → Service Type →	NB 4 N161803 16 Central Valley	NB 14 N171810 17 S.Fern'do Valley	NB M1 N041746 4 All-Stop Local	NB 15 N161833 16 Central Valley	NB 10 N141812 14 L.A Merced Local	NB 1 N171840 17 S.Fern'do Valley	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited	NB 19 N161913 16 Central Valley	NB M2 N041855 4 All-Stop Local	NB 18 N141912 14 L.A Merced Local	NB 23 N171940 17 S.Fern'do Valley	NB 67 N011935 1 Bay Area Limited	NB 5 N041955 4 All-Stop Local	NB M3 N142020 14 L.A Merced Local	NB 70 N012035 1 Bay Area Limited	NB 13 N042055 4 All-Stop Local
Mile Static	Direction → Trainset Train No. → Pattern → Service Type → Dn Anaheim Dep	NB 4 N161803 16 Central Valley	NB 14 N171810 17 S.Fern'do Valley	NB M1 N041746 4 All-Stop Local	NB 15 N161833 16 Central Valley	NB 10 N141812 14 L.A Merced Local	NB 1 N171840 17 S.Fern'do Valley	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited	NB 19 N161913 16 Central Valley	NB M2 N041855 4 All-Stop Local	NB 18 N141912 14 L.A Merced Local	NB 23 N171940 17 S.Fern'do Valley	NB 67 N011935 1 Bay Area Limited	NB 5 N041955 4 All-Stop Local	NB M3 N142020 14 L.A Merced Local	NB 70 N012035 1 Bay Area Limited	NB 13 N042055 4 All-Stop Local
Mile <u>Static</u> 0.0 ANA 15.0 NSF	Direction → Trainset Train No. → Pattern → Service Type → Dn Anaheim Dep Norwalk Dep	NB 4 N161803 16 Central Valley	NB 14 N171810 17 S.Fern'do Valley	NB M1 N041746 4 All-Stop Local 17:46 17:56	NB 15 N161833 16 Central Valley	NB 10 N141812 14 L.A Merced Local 18:12	NB 1 N171840 17 S.Fern'do Valley	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley	NB M2 N041855 4 All-Stop Local 18:55 19:05	NB 18 N141912 14 L.A Merced Local 19:12	NB 23 N171940 17 S.Fern'do Valley	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05	NB M3 N142020 14 L.A Merced Local 20:20 20:30	NB 70 N012035 1 Bay Area Limited 20:35 20:45	NB 13 N042055 4 All-Stop Local 20:55 21:05
Mile <u>Static</u> 0.0 ANA 15.0 NSF	Direction → Trainset Train No. → Pattem → Service Type → Dn Anaheim Dep Norwalk Dep L.A. Union Sta. Arr	NB 4 N161803 16 Central Valley Limited	NB 14 N171810 17 S.Fern'do Valley Limited	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:22 18:34	NB 1 N171840 17 S.Fern'do Valley Limited	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited	NB M2 N041855 4 All-Stop Local 18:55 19:05	NB 18 N141912 14 L.A Merced Local 19:12 19:22 19:34	NB 23 N171940 17 S.Fern'do Valley Limited	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17
Mile <u>Static</u> 0.0 ANA 15.0 NSF 30.3 LAU	Direction → Trainset Train No. → Pattem → Service Type → DI Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep	NB 4 N161803 16 Central Valley	NB 14 N171810 17 S.Fern'do Valley Limited	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10	NB 15 N161833 16 Central Valley	NB 10 N141812 14 L.A Merced Local 18:12 18:22 18:34 18:36	NB 1 N171840 17 S.Fern'do Valley Limited	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19	NB 18 N141912 14 L.A Merced Local 19:12 19:22 19:34 19:36	NB 23 N171940 17 S.Fern'do Valley Limited	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44	NB 70 N012035 1 Bay Area Limited 20:35 20:45	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR	Direction → Trainset Train No. → Pattem → Service Type → Pattem → Dep Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep	NB 4 N161803 16 Central Valley Limited	NB 14 N171810 17 S.Fern'do Valley Limited	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:22 18:34 18:36 18:45	NB 1 N171840 17 S.Fern'do Valley Limited 18:40 18:49	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29	NB 18 N141912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45	NB 23 N171940 17 S.Fern'do Valley Limited	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL	Direction → Trainset Train No. → Pattern → Service Type → DI Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Sylmar Dep	NB 4 N161803 16 Central Valley Limited	NB 14 N171810 17 S.Fern'do Valley Limited	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:22 18:34 18:36	NB 1 N171840 17 S.Fern'do Valley Limited	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19	NB 18 N141912 14 L.A Merced Local 19:12 19:22 19:34 19:36	NB 23 N171940 17 S.Fern'do Valley Limited	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR	Direction → Trainset Train No. → Pattern → Service Type → DE Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Sylmar Dep Palmdale Arr	NB 4 N161803 16 Central Valley Limited	NB 14 N171810 177 S.Fern'do Valley Limited 18:10 18:19 18:28	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 18:19	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:22 18:34 18:36 18:45	NB 1 171 177 S.Fern'do Valley Limited 18:40 18:49 18:58	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37	NB 18 18 18 18 18 19 14 L.A Merced Local 19:12 19:22 19:34 19:34 19:45 19:54	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37	NB M3 N142020 14 L.A Merced Local 20:30 20:42 20:42 20:44 20:53 21:02 21:21	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD	Direction → Trainset Train No. → Pattern → Service Type → Dep Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Sylmar Dep Palmdale Arr Dep	NB 4 N161803 16 Central Valley Limited	NB 14 N171810 17 S.Fern'do Valley Limited	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 18:28	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:22 18:34 18:36 18:45 18:54	NB 1 N171840 17 S.Fern'do Valley Limited 18:40 18:49	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29	NB 18 N141912 14 L.A Merced Local 19:12 19:22 19:34 19:34 19:35 19:54	NB 23 N171940 17 S.Fern'do Valley Limited	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL	Direction → Trainset Train No. → Pattern → Service Type → Dep Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Sylmar Dep Palmdale Arr Dep Bakersfield Arr	NB 4 N161803 16 Central Valley Limited	NB 14 N171810 177 S.Fern'do Valley Limited 18:10 18:19 18:28	NB M1 N041746 4 4 All-Stop Local 17:46 18:08 18:10 18:18 18:19 18:28 19:19	NB 15 N161833 16 Central Valley Limited	NB 10 114 L.A Merced Local 18:12 18:22 18:34 18:36 18:45 18:54 19:14	NB 1 171 177 S.Fern'do Valley Limited 18:40 18:49 18:58	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited	NB M2 No41855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58	NB 18 N141912 14 L.A Merced Local 19:12 19:34 19:36 19:45 19:54 20:14 20:47	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37	NB M3 N142020 14 L.A Merced Local 20:20 20:42 20:44 20:53 21:21 21:27	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD	Direction → Trainset Train No. → Pattern → Service Type → DI Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Sylmar Dep Palmdale Arr Dep Bakersfield Arr Dep	NB 4 N161803 16 Central Valley Limited	NB 14 N171810 177 S.Fern'do Valley Limited 18:10 18:19 18:28	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 18:28	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:22 18:34 18:36 18:45 18:54	NB 1 171 177 S.Fern'do Valley Limited 18:40 18:49 18:58	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37	NB 18 N141912 14 L.A Merced Local 19:12 19:22 19:34 19:34 19:35 19:54	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37	NB M3 N142020 14 L.A Merced Local 20:30 20:42 20:42 20:44 20:53 21:02 21:21	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD	Direction → Trainset Train No. → Pattem → Service Type → Pattem → Service Type → Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Sylmar Dep Palmdale Arr Dep Bakersfield Arr Dep	NB 4 N161803 16 Central Valley Limited	NB 14 N171810 177 S.Fern'do Valley Limited 18:10 18:19 18:28	NB M1 N041746 4 4 All-Stop Local 17:46 18:08 18:10 18:18 18:19 18:28 19:19	NB 15 N161833 16 Central Valley Limited	NB 10 114 L.A Merced Local 18:12 18:22 18:34 18:36 18:45 18:54 19:14	NB 1 171 177 S.Fern'do Valley Limited 18:40 18:49 18:58	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited	NB M2 No41855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29	NB 18 N141912 14 L.A Merced Local 19:12 19:34 19:36 19:45 19:54 20:14 20:47	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37	NB M3 N142020 14 L.A Merced Local 20:20 20:42 20:44 20:53 21:21 21:27	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD	Direction → Trainset Train No. → Pattern → Service Type → Dep Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Palmdale Arr Dep Bakersfield Arr Dep Fresno Arr	NB 4 1161803 16 Central Valley Limited 18:03 18:58 19:37	NB 14 N171810 177 S.Fern'do Valley Limited 18:10 18:19 18:28	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 18:19 18:28 19:19 19:24	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:34 18:34 18:35 18:45 19:14 19:47 19:55	NB 1 171 177 S.Fern'do Valley Limited 18:40 18:49 18:58	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited 19:13	NB M2 No41855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58	NB 18 N141912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 19:54 20:14 20:55	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29 22:08	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58 22:29 23:08
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD 285.4 FNO	Direction → Trainset Train No. → Pattem → Service Type → DIN Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Sylmar Dep Palmdale Arr Dep Bakersfield Arr Dep Fresno Arr	NB 4 1161803 16 Central Valley Limited 18:03	NB 14 N171810 177 S.Fern'do Valley Limited 18:10 18:19 18:28	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 18:19 18:28 19:19 19:24	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:34 18:36 18:45 18:54 19:14 19:47 19:55	NB 1 171 177 S.Fern'do Valley Limited 18:40 18:49 18:58	NB 2 N152034 15 S.F Merced	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited 19:13	NB M2 No41855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29	NB 18 NH1912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 20:14 20:47 20:55 21:34	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58 22:37	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD 285.4 FNO	Direction → Trainset Train No. → Pattem → Service Type → Dep Anaheim Dep L.A. Union Sta. Arr Dep Burbank Dep Palmdale Arr Dep Bakersfield Arr Dep Fresno Arr Dep Merced Arr	NB 4 1161803 16 Central Valley Limited 18:03 18:58 19:37	NB 14 N171810 177 S.Fern'do Valley Limited 18:10 18:19 18:28	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 18:19 18:28 19:19 19:24	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:34 18:36 18:45 18:54 19:14 19:47 19:55	NB 1 171 177 S.Fern'do Valley Limited 18:40 18:49 18:58	NB 2 N152034 15 S.F Merced Local	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited 19:13	NB M2 No41855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29	NB 18 NH1912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 20:14 20:47 20:55 21:34	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29 22:08	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58 22:37	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58 22:29 23:08
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD 285.4 FNO 354.4 MCD	Direction → Trainset Train No. → Pattem → Service Type → Dep Anaheim Dep L.A. Union Sta. Arr Dep Burbank Dep Palmdale Arr Dep Bakersfield Arr Dep Fresno Arr Dep Merced Arr	NB 4 1161803 16 Central Valley Limited 18:03 18:58 19:37	NB 14 N171810 177 S.Fern'do Valley Limited 18:10 18:19 18:28	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 18:19 18:28 19:19 19:24	NB 15 N161833 16 Central Valley Limited	NB 10 N141812 14 L.A Merced Local 18:12 18:34 18:36 18:45 18:54 19:14 19:47 19:55	NB 1 171 177 S.Fern'do Valley Limited 18:40 18:49 18:58	NB 2 N152034 15 S.F Merced Local	NB 57 N011835 1 Bay Area Limited 18:35 18:45	NB 19 N161913 16 Central Valley Limited 19:13	NB M2 No41855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29	NB 18 NH1912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 20:14 20:47 20:55 21:34	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58	NB 67 N011935 1 Bay Area Limited 19:35 19:45	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29 22:08	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58 22:37	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58 22:29 23:08
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD 285.4 FNO 354.4 MCD 399.2 GLY 428.8 SJC	Direction → Trainset Train No. → Pattern → Service Type → Dep Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Palmdale Arr Dep Bakersfield Arr Dep Fresno Arr Dep Merced Arr Dep Gilroy Arr Dep San Jose Dep	NB 4 N161803 16 Central Valley Limited 18:03 18:58 19:37 \$\display\$ 20:18 20:34	NB 14 17 17 17 18 10 17 17 18 10 11 11 11 11 11 11 11 11 11 11 11 11	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 18:19 18:28 19:19 19:24 20:03	NB 15 N161833 16 Central Valley Limited 18:33 19:28 20:07	NB 10 N141812 14 L.A Merced Local 18:12 18:34 18:36 18:45 18:54 19:14 19:47 19:55	NB 1 171840 177 S.Fern'do Valley Limited 18:40 18:58 19:18	NB 2 115034 15 S.F Merced Local 20:34	NB 57 N011835 1 Bay Area Limited 18:35 18:45 19:00	NB 19 16 Central Valley Limited 19:13 20:08 20:47	NB M2 No41855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29 21:08	NB 18 NH1912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 20:14 20:47 20:55 21:34	NB 23 N171940 17 S.Ferrido Valley Limited 19:40 19:49 19:58 20:18	NB 67 N011935 1 Bay Area Limited 19:35 19:45 19:56 20:00	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29 22:08	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58 22:37	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56 21:00	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58 22:29 23:08 ↓
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD 285.4 FNO 354.4 MCD 399.2 GLY 428.8 SJC 450.5 RWC	Direction → Trainset Train No. → Pattern →	NB 4 N161803 16 Central Valley Limited 18:03 18:58 19:37 19:37 20:18 20:34 20:48	NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:19 18:28 18:48	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 19:19 19:24 20:03 ↓	NB 15 N161833 16 Central Valley Limited 18:33 19:28 20:07	NB 10 N141812 14 L.A Merced Local 18:12 18:34 18:36 18:45 18:54 19:14 19:47 19:55	NB 1 17 17 S.Fern'do Valley Limited 18:40 18:58 19:18	NB 2 N152034 15 S.F Merced Local 20:34 21:09 21:25 21:40	NB 57 N011835 1 Bay Area Limited 18:35 18:45 18:56 19:00 21:04	NB 19 N161913 16 Central Valley Limited 19:13 20:08 20:47 ↓	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29 21:08 ↓ 21:50 22:05 22:19	NB 18 NH1912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 20:14 20:47 20:55 21:34	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58 20:18	NB 67 N011935 1 Bay Area Limited 19:35 19:45 19:56 20:00	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29 22:08 ↓ 22:50 23:05 23:19	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58 22:37	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56 21:00	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58 22:29 23:08 ↓ 23:50 0:05 0:19
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD 285.4 FNO 354.4 MCD 399.2 GLY 428.8 SJC 450.5 RWC 462.2 SFO	Direction → Trainset Train No. → Pattern → Service Type → Dep Anaheim Dep L.A. Union Sta. Arr Dep Burbank Dep Palmdale Arr Dep Bakersfield Arr Dep Fresno Arr Dep Merced Arr Dep Gilroy Arr Dep San Jose Dep Redwood City Arr	NB 4 N161803 16 Central Valley Limited 18:03 18:58 19:37 20:18 20:34 20:48	NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:19 18:28 18:48 20:31 20:47 21:00	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 19:19 19:24 20:03	NB 15 N161833 16 Central Valley Limited 18:33 19:28 20:07 10:28 21:04 21:18	NB 10 N141812 14 L.A Merced Local 18:12 18:34 18:36 18:45 18:54 19:14 19:47 19:55	NB 1 17 17 17 18 10 17 17 18 14 10 17 18 14 10 18 14 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	NB 2 N152034 15 S.F Merced Local 20:34 21:09 21:25 21:40 21:50	NB 57 N011835 1 Bay Area Limited 18:35 18:45 18:56 19:00 21:04 21:20 21:34	NB 19 N161913 16 Central Valley Limited 19:13 20:08 20:47 4 21:28 21:44 21:58	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29 21:08 ↓ 21:50 22:05 22:19 22:29	NB 18 NH1912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 20:14 20:47 20:55 21:34	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58 20:18 21:59 22:15 22:28	NB 67 N011935 1 Bay Area Limited 19:35 19:45 20:00	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29 22:08 ↓ 22:50 23:05 23:19 23:29	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58 22:37	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56 21:00 23:04 23:20 23:34	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58 22:29 23:08 ↓ 23:50 0:05 0:19 0:29
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD 285.4 FNO 354.4 MCD 399.2 GLY 428.8 SJC 450.5 RWC 462.2 SFO	Direction → Trainset Train No. → Pattern →	NB 4 N161803 16 Central Valley Limited 18:03 18:58 19:37 19:37 20:18 20:34 20:48	NB 14 N171810 17 S.Fern'do Valley Limited 18:19 18:28 18:48 20:31 20:47 21:00	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 19:19 19:24 20:03 ↓	NB 15 N161833 16 Central Valley Limited 18:33 19:28 20:07	NB 10 N141812 14 L.A Merced Local 18:12 18:34 18:36 18:45 18:54 19:14 19:47 19:55	NB 1 171840 177 S.Fern'do Valley Limited 18:49 18:58 19:18 20:59 21:15 21:28	NB 2 N152034 15 S.F Merced Local 20:34 21:09 21:25 21:40	NB 57 N011835 1 Bay Area Limited 18:35 18:45 18:56 19:00 21:04 21:20 21:34	NB 19 N161913 16 Central Valley Limited 19:13 20:08 20:47 21:28 21:44 21:58	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29 21:08 ↓ 21:50 22:05 22:19	NB 18 NH1912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 20:14 20:47 20:55 21:34	NB 23 N171940 17 S.Fern'do Valley Limited 19:49 19:58 20:18 21:59 22:15 22:28	NB 67 N011935 1 Bay Area Limited 19:35 19:45 19:56 20:00	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29 22:08 ↓ 22:50 23:05 23:19	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58 22:37	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56 21:00 23:34	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58 22:29 23:08 ↓ 23:50 0:05 0:19
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD 285.4 FNO 354.4 MCD 399.2 GLY 428.8 SJC 450.5 RWC 462.2 SFO	Direction → Trainset Train No. → Pattern → Service Type → Dep Anaheim Dep Norwalk Dep L.A. Union Sta. Arr Dep Burbank Dep Sylmar Dep Palmdale Arr Dep Bakersfield Arr Dep Gilroy Arr Dep San Jose Dep Redwood City Arr Millbrae Arr S.FTransbay Arr	NB 4 N161803 16 Central Valley Limited 18:03 18:58 19:37 18:58 20:18 20:48 21:12	NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:28 18:48 20:31 20:47 21:00 21:20	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 19:19 19:24 20:03 ↓ 20:44 21:00 21:14 21:24 21:39	NB 15 N161833 16 Central Valley Limited 18:33 19:28 20:07	NB 10 N141812 14 L.A Merced Local 18:12 18:22 18:34 18:36 18:45 19:14 19:47 19:55 20:34 20:58	NB 1 171840 177 S.Fern'do Valley Limited 18:49 18:58 19:18 20:59 21:15 21:28 21:48	NB 2 N152034 15 S.F Merced Local 20:34 21:09 21:25 21:40 22:04	NB 57 N011835 1 Bay Area Limited 18:35 18:45 18:56 19:00 21:04 21:20 21:34 21:53	NB 19 N161913 16 Central Valley Limited 19:13 20:08 20:47 21:28 21:44 21:58 22:22	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29 21:08 ↓ 21:50 22:05 22:19 22:29 22:44	NB 18 N141912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 19:54 20:14 20:47 20:55 21:34 21:58	NB 23 N171940 17 S.Fern'do Valley Limited 19:49 19:58 20:18 21:59 22:15 22:28 22:48	NB 67 N011935 1 Bay Area Limited 19:35 19:45 19:56 20:00	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29 22:08 ↓ 22:50 23:05 23:19 23:29 23:44	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58 22:37 22:57	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56 21:00 23:04 23:20 23:34 23:53	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58 22:29 23:08 ↓ 23:50 0:05 0:19 0:29 0:44
Mile Static 0.0 ANA 15.0 NSF 30.3 LAU 40.6 BUR 51.1 SYL 89.4 PMD 174.1 BFD 285.4 FNO 354.4 MCD 399.2 GLY 428.8 SJC 450.5 RWC 462.2 SFO	Direction → Trainset Train No. → Pattern → Service Type → Dep Anaheim Dep L.A. Union Sta. Arr Dep Burbank Dep Palmdale Arr Dep Bakersfield Arr Dep Fresno Arr Dep Merced Arr Dep Gilroy Arr Dep San Jose Dep Redwood City Arr	NB 4 N161803 16 Central Valley Limited 18:03 18:58 19:37 19:37 19:34 20:48 19:34 20:48 19:37 19:40 19:	NB 14 N171810 17 S.Fern'do Valley Limited 18:10 18:19 18:28 18:48 20:31 20:47 21:00	NB M1 N041746 4 All-Stop Local 17:46 17:56 18:08 18:10 18:18 19:19 19:24 20:03	NB 15 N161833 16 Central Valley Limited 18:33 19:28 20:07 10:28 21:04 21:18	NB 10 N141812 14 L.A Merced Local 18:12 18:34 18:36 18:45 18:54 19:14 19:47 19:55	NB 1 17 17 17 18 10 17 17 18 14 10 17 18 14 10 18 14 19 18 18 19 18 18 19 18 18 19 18 19 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	NB 2 N152034 15 S.F Merced Local 20:34 21:09 21:25 21:40 21:50	NB 57 N011835 1 Bay Area Limited 18:35 18:45 18:56 19:00 21:04 21:20 21:34	NB 19 N161913 16 Central Valley Limited 19:13 20:08 20:47 4 21:28 21:44 21:58	NB M2 N041855 4 All-Stop Local 18:55 19:05 19:17 19:19 19:29 19:37 19:58 20:29 21:08 ↓ 21:50 22:05 22:19 22:29	NB 18 NH1912 14 L.A Merced Local 19:12 19:22 19:34 19:36 19:45 20:14 20:47 20:55 21:34	NB 23 N171940 17 S.Fern'do Valley Limited 19:40 19:49 19:58 20:18 21:59 22:15 22:28	NB 67 N011935 1 Bay Area Limited 19:35 19:45 20:00	NB 5 N041955 4 All-Stop Local 19:55 20:05 20:17 20:19 20:29 20:37 20:58 21:29 22:08 ↓ 22:50 23:05 23:19 23:29	NB M3 N142020 14 L.A Merced Local 20:20 20:30 20:42 20:44 20:53 21:02 21:21 21:27 21:58 22:37	NB 70 N012035 1 Bay Area Limited 20:35 20:45 20:56 21:00 23:04 23:20 23:34	NB 13 N042055 4 All-Stop Local 20:55 21:05 21:17 21:19 21:29 21:37 21:58 22:29 23:08 ↓ 23:50 0:05 0:19 0:29

File: Timetable v11b.xls Sheet: Ttable Printed: 11/20/2008 3:13 PM Page 4 of 4

California High-Speed Train Project

Phase I Service Plan, R0

Page 49

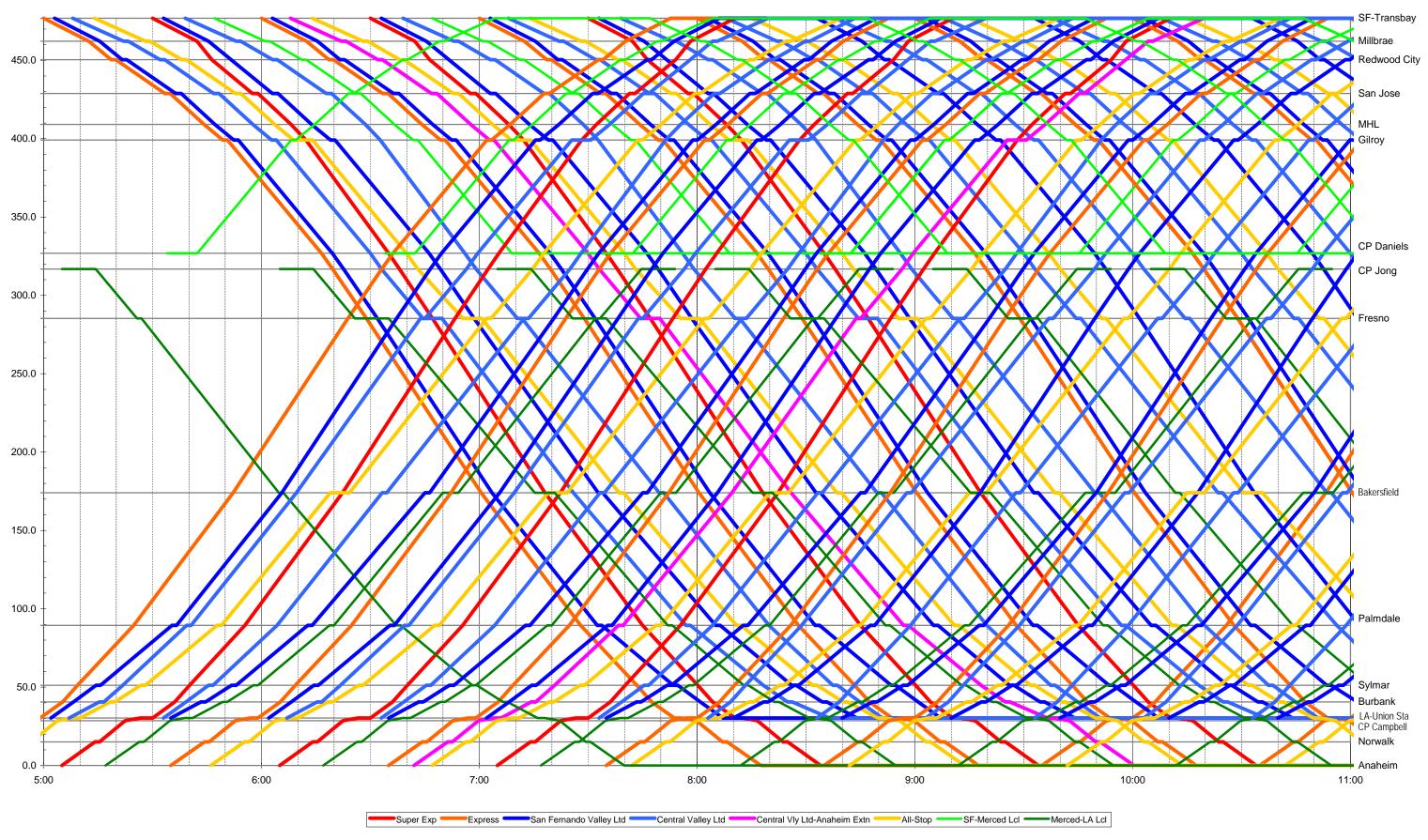
B2. Stringline Diagrams

- Morning Peak Period
- Mid-Day Period
- Afternoon Peak Period
- Evening and Late Night Period

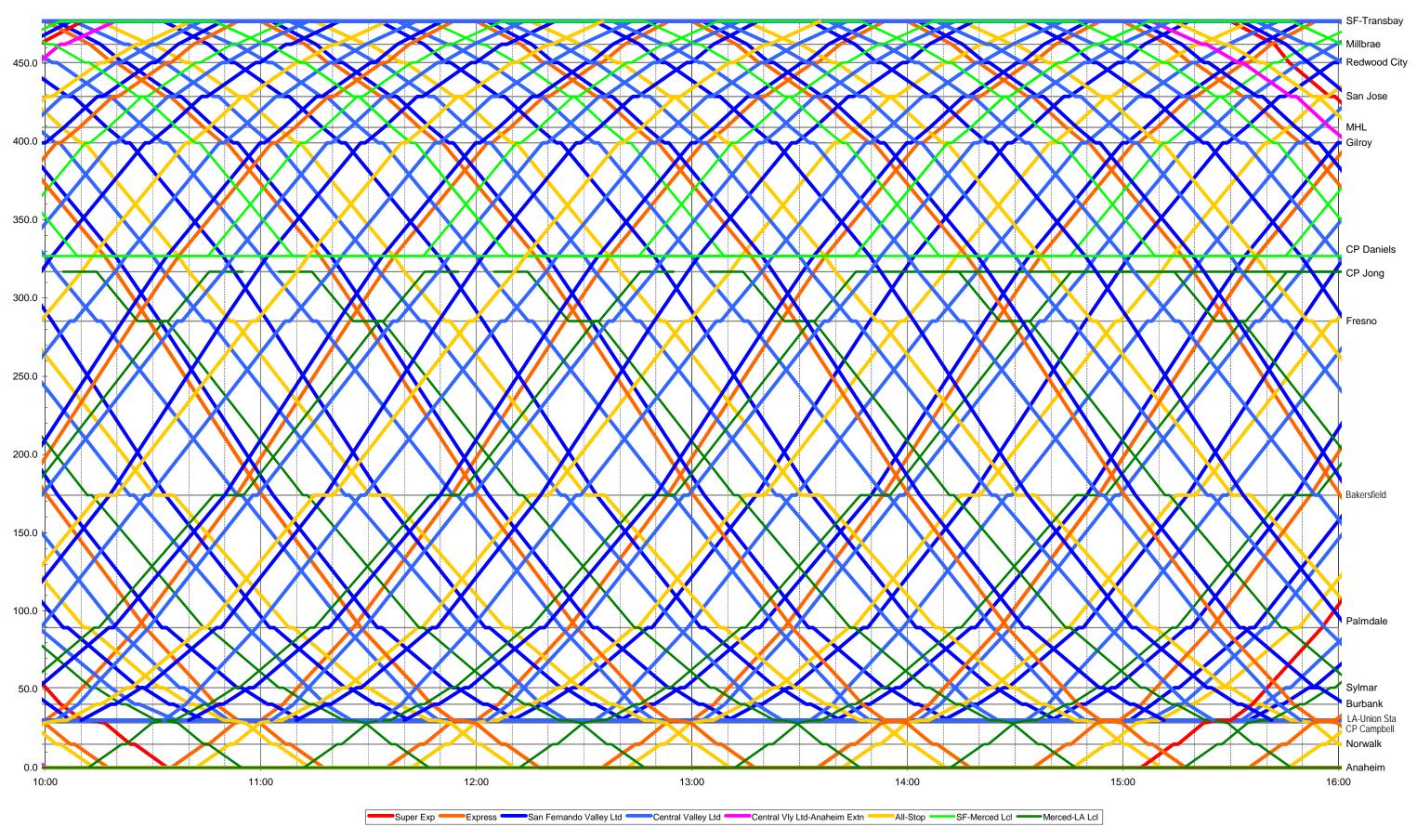


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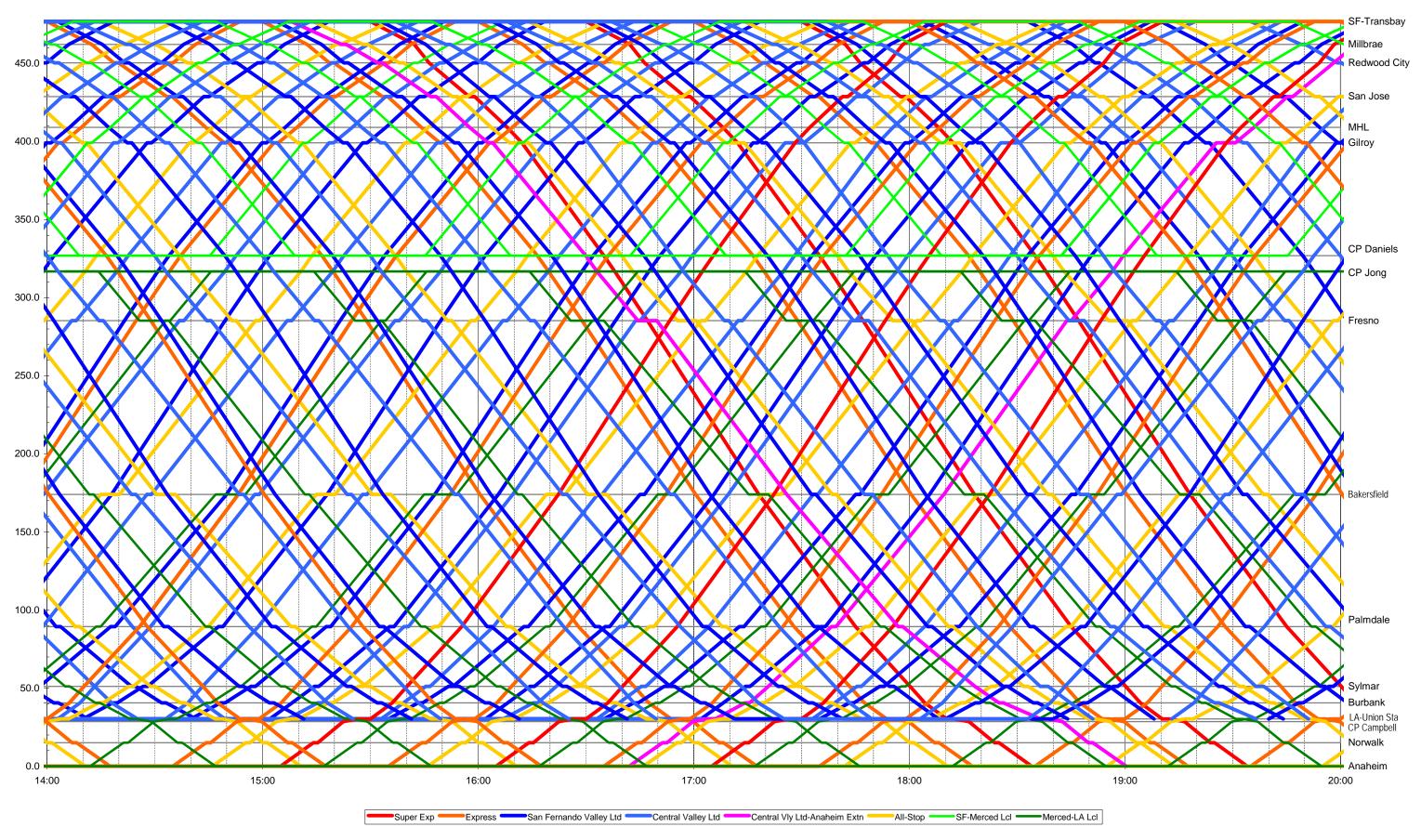
Appendix B2 - HSR PHASE 1 SERVICE PLAN - VARIATION (Version 10B) - MORNING PEAK



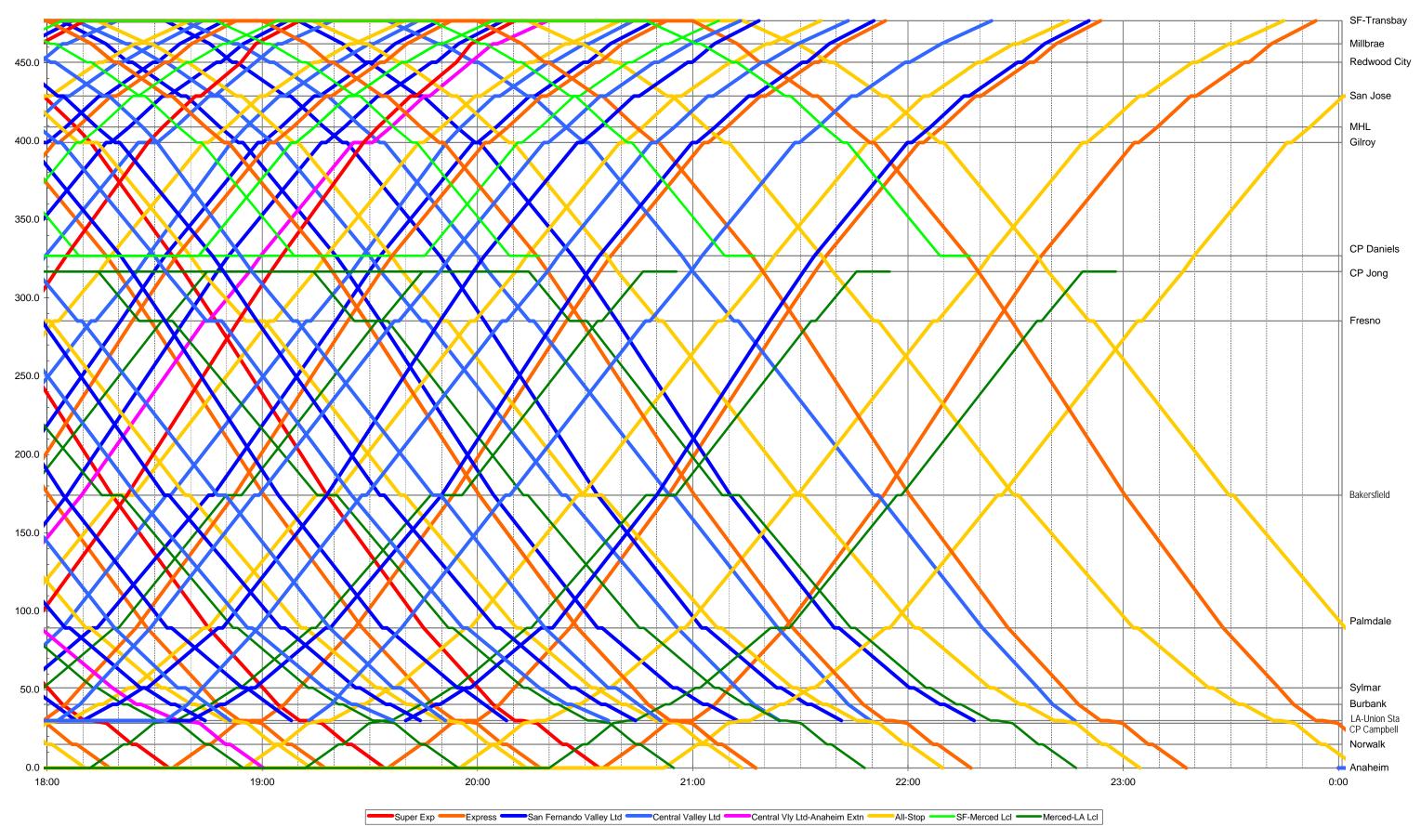
Appendix B2 - HSR PHASE 1 SERVICE PLAN - VARIATION (Version 10B) - MID-DAY



Appendix B2 - HSR PHASE 1 SERVICE PLAN - VARIATION (Version 10B) - AFTERNOON PEAK



Appendix B2 - HSR PHASE 1 SERVICE PLAN - VARIATION (Version 10B) - LATE EVENING





BOARD OF DIRECTORS 2010

SEAN ELSBERND, CHAIR MARK CHURCH, VICE CHAIR OMAR AHMAD JOSÉ CISNEROS NATHANIEL P. FORD, SR. DON GAGE ASH KALRA ARTHUR L. LLOYD KEN YEAGER

MICHAEL J. SCANLON EXECUTIVE DIRECTOR

February 4, 2010

PRP-1802-LTO-PB-001

Mr. Dominic Spaethling Parsons Brinkerhoff 303 Second Street, Suite 700 N San Francisco, CA 94107

Subject:

Caltrain Operations Schedule

CHSR Planning

Dominic,

At your request, Caltrain is transmitting for your use the 2025 Caltrain 10 train per peak hour Timetable. A few words concerning this timetable. The timetable assumes existing Caltrain operating speeds and station to station run times have not been vetted. The schedule is intended as a planning tool to assist PB in developing the CHSR Operations Plan and Schedule within the shared corridor. Caltrain is providing this information with the understanding that it is subject to changes in future Caltrain operational requirements or planning strategies. If such changes to the planned schedule occur, then Caltrain expects that CHSR will consequently adjust its Operations Plan as required to coordinate with Caltrain.

Sincerety

Michelle Bouchard Log Director

Caltrain Rail Transportation

CC: R. Doty, PRP; Doc. Control

Enc: Caltrain 2025 Operations Schedule

PENINSULA CORRIDOR JOINT POWERS BOARD

1250 San Carlos Avenue – P.O. Box 3006 San Carlos, CA 94070-1306 (650)508-6269

10 Train Per Hour Schedule - With Transbay

EMU: Limited/Locals

<u>Northbound</u>																																
Tamien		5:02a	5:57a			6:15a		6:27a			6:45a		6:57a			7:15a		7:27a			7:45a		7:57a			8:15a		8:27a			8:45a	
San Jose Diridon	4:30a	5:05a	6:00a	6:06a	6:12a	6:18a	6:24a	6:30a	6:36a	6:42a	6:48a	6:54a	7:00a	7:06a	7:12a	7:18a	7:24a	7:30a	7:36a	7:42a	7:48a	7:54a	8:00a	8:06a	8:12a	8:18a	8:24a	8:30a	8:36a	8:42a	8:48a	8:54a
College Park																						7:57a										
Santa Clara	4:35a	5:10a	6:05a		6:17a		6:29a	6:35a		6:47a		6:59a	7:05a		7:17a		7:29a	7:35a		7:47a		8:00a	8:05a		8:17a		8:29a	8:35a		8:47a		8:59a
Lawrence	4:39a	5:14a		6:14a		6:26a	6:33a		6:44a		6:56a	7:03a		7:14a		7:26a	7:33a		7:44a		7:56a	8:04a		8:14a		8:26a	8:33a		8:44a		8:56a	9:03a
Sunnyvale	4:42a	5:17a	6:11a	6:17a		6:29a		6:41a	6:47a		6:59a		7:11a	7:17a		7:29a		7:41a	7:47a		7:59a		8:11a	8:17a		8:29a		8:41a	8:47a		8:59a	
Mountain View	4:47a	5:22a	6:16a		6:26a	6:34a	6:40a	6:46a		6:56a	7:04a	7:10a	7:16a		7:26a	7:34a	7:40a	7:46a		7:56a	8:04a	8:11a	8:16a		8:26a	8:34a	8:40a	8:46a		8:56a	9:04a	9:10a
San Antonio	4:50a	5:25a		6:24a	6:29a				6:54a	6:59a				7:24a	7:29a				7:54a	7:59a				8:24a	8:29a				8:54a	8:59a		
California Avenue	4:53a	5:28a	(22-	6:27a	6:32a	/ 41-	(47-	/ F2-	6:57a	7:02a	7 11 -	7 17-	7.00-	7:27a	7:32a	7.41-	7.47-	7.50-	7:57a	8:02a	0.11-	0.10-	0.00-	8:27a	8:32a	0.41-	0.47-	0.52-	8:57a	9:02a	0.11-	0.17-
Palo Alto	4:57a	5:32a	6:23a	6:31a	6:36a	6:41a	6:47a	6:53a	7:01a	7:06a		7:17a	7:23a	7:31a	7:36a	7:41a	7:47a	7:53a	8:01a	8:06a	8:11a		8:23a	8:31a	8:36a	8:41a	8:47a	8:53a	9:01a	9:06a	9:11a	9:17a
Menlo Park Atherton	4:59a 5:01a	5:34a 5:36a	6:26a	6:33a		6:43a	6:49a	6:56a	7:03a		7:13a	7:19a	7:26a	7:33a		7:43a	7:49a	7:56a	8:03a		8:13a	8:20a	8:26a	8:33a		8:43a	8:49a	8:56a	9:03a		9:13a	9:19a
Redwood City	5:05a	5:40a	6:30a		6:41a	6:49a	6:54a	7:00a		7:11a	7:19a	7.242	7:20a 7:30a		7:41a	7:49a	7:54a	8:00a		8:11a	8:19a	8:25a	8:30a		8:41a	8:49a	8:54a	9:00a		9:11a	9:19a	9:24a
San Carlos	5:08a	5:43a	6:33a		6:44a	0.494	6:57a	7:00a 7:03a		7:11a 7:14a	7.174	7:24a 7:27a	7:33a		7:44a	1.49a	7:57a	8:03a		8:14a	0.174	8:28a	8:33a		8:44a	0.474	8:57a	9:03a		9:14a	7.174	9:27a
Belmont	5:10a	5:45a	0.554	6:40a	6:46a		0.574	7.03a	7:10a	7:14a 7:16a		7.27d	7.554	7:40a	7:46a		7.574	0.03a	8:10a	8:16a		0.204	0.334	8:40a	8:46a		0.574	7.034	9:10a	9:16a		7.Z/a
Hillsdale	5:13a	5:48a	6:37a	6:43a	6:49a	6:54a	7:01a	7:07a	7:13a	7:19a	7:24a	7:31a	7:37a	7:43a	7:49a	7:54a	8:01a	8:07a	8:13a	8:19a	8:24a	8:32a	8:37a	8:43a	8:49a	8:54a	9:01a	9:07a	9:13a	9:19a	9:24a	9:31a
Hayward Park	5:15a	5:50a	0.574	J. 134	J. 77a	6:56a	7.010	7.074	7.130	,/u	7:24a 7:26a	7.010	7.574	7.130	7.17u	7:56a	0.010	0.074	0.100	0.174	8:26a	0.024	5.574	0. 100	J. 17a	8:56a	7.01u	7.574	7.130	7.17d	9:26a	7.510
San Mateo	5:17a	5:52a		6:46a		6:58a	7:04a		7:16a			7:34a		7:46a		7:58a	8:04a		8:16a			8:35a		8:46a		8:58a	9:04a		9:16a		9:28a	9:34a
Burlingame	5:20a	5:55a	6:41a	3.100	6:53a	0.000	, iu	7:11a		7:23a	50		7:41a	00	7:53a		5.5 Iu	8:11a	5 Ou	8:23a	0.200	0.000	8:41a	5. 100	8:53a	0.000	, iu	9:11a	,ou	9:23a	,.200	7.5 Tu
Broadway	5:22a	5:57a	6:43a		004			7:13a		204			7:43a		004			8:13a					8:43a		2.000			9:13a		Ju		
Millbrae	5:26a	6:01a	6:47a	6:52a	6:58a	7:04a	7:10a	7:17a	7:22a	7:28a	7:34a	7:40a	7:47a	7:52a	7:58a	8:04a	8:10a	8:17a	8:22a	8:28a	8:34a	8:41a	8:47a	8:52a	8:58a	9:04a	9:10a	9:17a	9:22a	9:28a	9:34a	9:40a
San Bruno	5:30a	6:05a		6:56a			7:14a		7:26a			7:44a		7:56a			8:14a		8:26a			8:45a		8:56a			9:14a		9:26a			9:44a
So. San Francisco	5:34a	6:09a	6:54a			7:11a	7:18a	7:24a			7:41a	7:48a	7:54a			8:11a	8:18a	8:24a			8:41a	8:49a	8:54a			9:11a	9:18a	9:24a			9:41a	9:48a
Bayshore	5:39a	6:14a			7:08a	7:16a				7:38a	7:46a				8:08a	8:16a				8:38a	8:46a				9:08a	9:16a				9:38a	9:46a	
22nd Street	5:44a	6:19a		7:06a	7:13a				7:36a	7:43a				8:06a	8:13a				8:36a	8:43a				9:06a	9:13a				9:36a	9:43a		
4th & King	5:48a	6:23a	7:05a	7:10a	7:17a	7:24a	7:29a	7:35a	7:40a	7:47a	7:54a	7:59a	8:05a	8:10a	8:17a	8:24a	8:29a	8:35a	8:40a	8:47a	8:54a	9:00a	9:05a	9:10a	9:17a	9:24a	9:29a	9:35a	9:40a	9:47a	9:54a	9:59a
Transbay			7:10a		7:22a			7:40a		7:52a		*	8:10a		8:22a			8:40a		8:52a			9:10a		9:22a			9:40a		9:52a		
Southbound Transbay																																
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4th & King	4:55a	5:25a	6:00a	6:01a 6:06a	6:12a	6:18a	6:24a	6:30a	6:31a 6:36a	6:42a	6:48a	6:54a	7:00a	7:01a 7:06a	7:12a	7:18a	7:24a	7:30a	7:31a 7:36a	7:42a	7:48a	7:54a	8:00a	8:01a 8:06a	8:12a	8:18a	8:24a	8:30a	8:31a 8:36a	8:42a	8:48a	8:54a
22nd Street	5:00a	5:30a	6:05a		6:12a 6:17a		6:24a 6:29a	6:35a			6:48a	6:54a 6:59a	7:05a			7:18a	7:24a 7:29a	7:35a			7:48a	7:54a 7:59a	8:05a				8:24a 8:29a	8:35a		8:42a 8:47a	8:48a	8:54a 8:59a
22nd Street Bayshore	5:00a 5:04a	5:30a 5:34a		6:06a	6:17a	6:18a			6:36a	6:47a	6:48a			7:06a	7:17a	7:18a			7:36a	7:47a	7:48a			8:06a	8:17a	8:18a			8:36a	8:47a	8:48a	
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22nd Street Bayshore South SF San Bruno	5:00a 5:04a 5:09a 5:13a	5:30a 5:34a 5:39a 5:43a	6:05a 6:09a	6:06a 6:17a 6:21a	6:17a 6:25a	6:18a	6:29a	6:35a 6:39a	6:36a 6:47a 6:51a	6:47a 6:55a	6:48a	6:59a	7:05a 7:09a	7:06a 7:17a 7:21a	7:17a 7:25a	7:18a	7:29a	7:35a 7:39a	7:36a 7:47a 7:51a	7:47a 7:55a	7:48a	7:59a	8:05a 8:09a	8:06a 8:17a 8:21a	8:17a 8:25a	8:18a	8:29a	8:35a 8:39a	8:36a 8:47a 8:51a	8:47a 8:55a	8:48a	8:59a
22nd Street Bayshore South SF San Bruno Millbrae	5:00a 5:04a 5:09a 5:13a 5:16a	5:30a 5:34a 5:39a 5:43a 5:46a	6:05a	6:06a 6:17a	6:17a	6:18a 6:23a	6:29a 6:41a	6:35a	6:36a 6:47a	6:47a	6:48a 6:53a	6:59a 7:11a	7:05a	7:06a 7:17a	7:17a	7:18a 7:23a	7:29a 7:41a	7:35a	7:36a 7:47a	7:47a	7:48a 7:53a	7:59a 8:11a	8:05a	8:06a 8:17a	8:17a	8:18a 8:23a	8:29a 8:41a	8:35a	8:36a 8:47a	8:47a	8:48a 8:53a	8:59a 9:11a
22nd Street Bayshore South SF San Bruno Millbrae Broadway	5:00a 5:04a 5:09a 5:13a 5:16a 5:19a	5:30a 5:34a 5:39a 5:43a 5:46a 5:49a	6:05a 6:09a	6:06a 6:17a 6:21a 6:24a	6:17a 6:25a	6:18a 6:23a 6:33a	6:29a	6:35a 6:39a	6:36a 6:47a 6:51a 6:54a	6:47a 6:55a	6:48a 6:53a 7:03a	6:59a	7:05a 7:09a	7:06a 7:17a 7:21a 7:24a	7:17a 7:25a	7:18a 7:23a 7:33a	7:29a	7:35a 7:39a	7:36a 7:47a 7:51a 7:54a	7:47a 7:55a	7:48a 7:53a 8:03a	7:59a	8:05a 8:09a	8:06a 8:17a 8:21a 8:24a	8:17a 8:25a	8:18a 8:23a 8:33a	8:29a	8:35a 8:39a	8:36a 8:47a 8:51a 8:54a	8:47a 8:55a	8:48a 8:53a 9:03a	8:59a
22nd Street Bayshore South SF San Bruno Millbrae Broadway Burlingame	5:00a 5:04a 5:09a 5:13a 5:16a 5:19a 5:21a	5:30a 5:34a 5:39a 5:43a 5:46a 5:49a 5:51a	6:05a 6:09a 6:18a	6:06a 6:17a 6:21a 6:24a 6:28a	6:17a 6:25a	6:18a 6:23a 6:33a	6:29a 6:41a 6:44a	6:35a 6:39a 6:48a	6:36a 6:47a 6:51a 6:54a 6:58a	6:47a 6:55a	6:48a 6:53a 7:03a	6:59a 7:11a 7:14a	7:05a 7:09a 7:18a	7:06a 7:17a 7:21a 7:24a 7:28a	7:17a 7:25a	7:18a 7:23a 7:33a 7:38a	7:29a 7:41a 7:44a	7:35a 7:39a 7:48a	7:36a 7:47a 7:51a 7:54a 7:58a	7:47a 7:55a	7:48a 7:53a 8:03a	7:59a 8:11a 8:14a	8:05a 8:09a 8:18a	8:06a 8:17a 8:21a 8:24a 8:28a	8:17a 8:25a	8:18a 8:23a 8:33a	8:29a 8:41a 8:44a	8:35a 8:39a 8:48a	8:36a 8:47a 8:51a 8:54a 8:58a	8:47a 8:55a	8:48a 8:53a 9:03a	9:11a 9:14a
22nd Street Bayshore South SF San Bruno Millbrae Broadway Burlingame San Mateo	5:00a 5:04a 5:09a 5:13a 5:16a 5:19a 5:21a 5:24a	5:30a 5:34a 5:39a 5:43a 5:46a 5:49a	6:05a 6:09a	6:06a 6:17a 6:21a 6:24a	6:17a 6:25a 6:31a	6:18a 6:23a 6:33a	6:29a 6:41a	6:35a 6:39a	6:36a 6:47a 6:51a 6:54a	6:47a 6:55a 7:01a	6:48a 6:53a 7:03a	6:59a 7:11a 7:14a	7:05a 7:09a	7:06a 7:17a 7:21a 7:24a	7:17a 7:25a 7:31a	7:18a 7:23a 7:33a	7:29a 7:41a	7:35a 7:39a	7:36a 7:47a 7:51a 7:54a	7:47a 7:55a 8:01a	7:48a 7:53a 8:03a	7:59a 8:11a	8:05a 8:09a	8:06a 8:17a 8:21a 8:24a	8:17a 8:25a 8:31a	8:18a 8:23a 8:33a	8:29a 8:41a	8:35a 8:39a	8:36a 8:47a 8:51a 8:54a	8:47a 8:55a 9:01a	8:48a 8:53a 9:03a	8:59a 9:11a
22nd Street Bayshore South SF San Bruno Millbrae Broadway Burlingame San Mateo Hayward Park	5:00a 5:04a 5:09a 5:13a 5:16a 5:19a 5:21a 5:24a 5:26a	5:30a 5:34a 5:39a 5:43a 5:46a 5:49a 5:51a 5:54a	6:05a 6:09a 6:18a	6:06a 6:17a 6:21a 6:24a 6:28a	6:17a 6:25a	6:18a 6:23a 6:33a 6:38a 6:41a	6:41a 6:44a 6:48a	6:35a 6:39a 6:48a 6:53a	6:36a 6:47a 6:51a 6:54a 6:58a 7:01a	6:47a 6:55a	6:48a 6:53a 7:03a 7:08a 7:11a	6:59a 7:11a 7:14a 7:18a	7:05a 7:09a 7:18a 7:23a	7:06a 7:17a 7:21a 7:24a 7:28a 7:31a	7:17a 7:25a	7:18a 7:23a 7:33a 7:38a 7:41a	7:29a 7:41a 7:44a 7:48a	7:35a 7:39a 7:48a 7:53a	7:36a 7:47a 7:51a 7:54a 7:58a 8:01a	7:47a 7:55a	7:48a 7:53a 8:03a 8:08a 8:11a	7:59a 8:11a 8:14a 8:18a	8:05a 8:09a 8:18a 8:23a	8:06a 8:17a 8:21a 8:24a 8:28a 8:31a	8:17a 8:25a	8:18a 8:23a 8:33a 8:38a 8:41a	8:41a 8:44a 8:48a	8:35a 8:39a 8:48a 8:53a	8:36a 8:47a 8:51a 8:54a 8:58a 9:01a	8:47a 8:55a	8:48a 8:53a 9:03a	9:11a 9:14a 9:18a
22nd Street Bayshore South SF San Bruno Millbrae Broadway Burlingame San Mateo Hayward Park Hillsdale	5:00a 5:04a 5:09a 5:13a 5:16a 5:19a 5:21a 5:24a 5:26a 5:29a	5:30a 5:34a 5:39a 5:43a 5:46a 5:49a 5:51a 5:54a	6:05a 6:09a 6:18a	6:06a 6:17a 6:21a 6:24a 6:28a 6:31a	6:17a 6:25a 6:31a 6:37a	6:18a 6:23a 6:33a 6:38a 6:41a 6:45a	6:29a 6:41a 6:44a	6:35a 6:39a 6:48a	6:36a 6:47a 6:51a 6:54a 6:58a	6:47a 6:55a 7:01a	6:48a 6:53a 7:03a 7:08a 7:11a	6:59a 7:11a 7:14a 7:18a	7:05a 7:09a 7:18a 7:23a	7:06a 7:17a 7:21a 7:24a 7:28a	7:17a 7:25a 7:31a 7:37a	7:18a 7:23a 7:33a 7:38a 7:41a 7:45a	7:29a 7:41a 7:44a	7:35a 7:39a 7:48a	7:36a 7:47a 7:51a 7:54a 7:58a	7:47a 7:55a 8:01a 8:07a	7:48a 7:53a 8:03a 8:08a 8:11a 8:15a	7:59a 8:11a 8:14a	8:05a 8:09a 8:18a 8:23a	8:06a 8:17a 8:21a 8:24a 8:28a	8:17a 8:25a 8:31a 8:37a	8:18a 8:23a 8:33a 8:38a 8:41a 8:45a	8:29a 8:41a 8:44a	8:35a 8:39a 8:48a	8:36a 8:47a 8:51a 8:54a 8:58a	8:47a 8:55a 9:01a	9:03a 9:08a 9:11a 9:15a	9:11a 9:14a
22nd Street Bayshore South SF San Bruno Millbrae Broadway Burlingame San Mateo Hayward Park Hillsdale Belmont	5:00a 5:04a 5:09a 5:13a 5:16a 5:19a 5:21a 5:24a 5:26a 5:29a 5:31a	5:30a 5:34a 5:39a 5:43a 5:46a 5:49a 5:51a 5:54a 5:59a 6:01a	6:05a 6:09a 6:18a 6:23a 6:27a	6:06a 6:17a 6:21a 6:24a 6:28a 6:31a	6:17a 6:25a 6:31a 6:37a 6:41a	6:18a 6:23a 6:33a 6:38a 6:41a	6:41a 6:44a 6:48a 6:52a	6:35a 6:39a 6:48a 6:53a 6:57a	6:36a 6:47a 6:51a 6:54a 6:58a 7:01a	6:47a 6:55a 7:01a 7:07a 7:11a	6:48a 6:53a 7:03a 7:08a 7:11a	7:11a 7:14a 7:18a 7:22a	7:05a 7:09a 7:18a 7:23a 7:27a	7:06a 7:17a 7:21a 7:24a 7:28a 7:31a	7:17a 7:25a 7:31a 7:37a 7:41a	7:18a 7:23a 7:33a 7:38a 7:41a	7:29a 7:41a 7:44a 7:48a 7:52a	7:35a 7:39a 7:48a 7:53a 7:57a	7:36a 7:47a 7:51a 7:54a 7:58a 8:01a	7:47a 7:55a 8:01a 8:07a 8:11a	7:48a 7:53a 8:03a 8:08a 8:11a	7:59a 8:11a 8:14a 8:18a 8:22a	8:05a 8:09a 8:18a 8:23a 8:27a	8:06a 8:17a 8:21a 8:24a 8:28a 8:31a	8:17a 8:25a 8:31a 8:37a 8:41a	8:18a 8:23a 8:33a 8:38a 8:41a	8:41a 8:44a 8:48a 8:52a	8:35a 8:39a 8:48a 8:53a 8:57a	8:36a 8:47a 8:51a 8:54a 8:58a 9:01a	8:47a 8:55a 9:01a 9:07a 9:11a	8:48a 8:53a 9:03a 9:08a 9:11a	9:11a 9:14a 9:18a 9:22a
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22nd Street Bayshore South SF San Bruno Millbrae Broadway Burlingame San Mateo Hayward Park Hillsdale Belmont San Carlos Redwood City Atherton Menlo Park Palo Alto California Ave. San Antonio Mountain View Sunnyvale Lawrence Santa Clara	5:00a 5:04a 5:09a 5:13a 5:16a 5:19a 5:21a 5:24a 5:26a 5:29a 5:31a 5:33a 5:39a 5:42a 5:44a 5:47a 5:50a 5:53a 5:57a 6:01a 6:04a	5:30a 5:34a 5:39a 5:43a 5:46a 5:49a 5:51a 5:54a 5:59a 6:01a 6:03a 6:09a 6:12a 6:17a 6:20a 6:23a 6:27a 6:31a 6:34a 6:39a	6:05a 6:09a 6:18a 6:23a 6:27a 6:30a 6:36a 6:39a 6:43a	6:06a 6:17a 6:21a 6:24a 6:24a 6:31a 6:35a 6:42a 6:46a 6:49a 6:52a 6:58a	6:17a 6:25a 6:31a 6:37a 6:41a 6:43a 6:49a 6:53a 6:56a 6:59a 7:02a 7:06a	6:18a 6:23a 6:33a 6:38a 6:41a 6:45a 6:47a 6:54a 6:58a 7:02a 7:07a	6:29a 6:41a 6:44a 6:48a 6:52a 6:55a 7:01a 7:05a 7:08a 7:15a 7:19a	6:35a 6:39a 6:48a 6:53a 6:57a 7:00a 7:06a 7:09a 7:13a	6:36a 6:47a 6:51a 6:54a 6:58a 7:01a 7:05a 7:12a 7:16a 7:19a 7:22a 7:28a 7:34a	6:47a 6:55a 7:01a 7:07a 7:11a 7:13a 7:19a 7:23a 7:26a 7:29a 7:32a 7:36a	6:48a 6:53a 7:03a 7:08a 7:11a 7:15a 7:17a 7:24a 7:28a 7:32a 7:37a 7:44a 7:47a	7:11a 7:14a 7:18a 7:22a 7:25a 7:31a 7:35a 7:35a 7:35a	7:05a 7:09a 7:18a 7:23a 7:27a 7:30a 7:36a 7:39a 7:43a 7:50a 7:54a	7:06a 7:17a 7:21a 7:24a 7:28a 7:31a 7:35a 7:42a 7:46a 7:49a 7:52a 7:58a 8:04a	7:17a 7:25a 7:31a 7:37a 7:41a 7:43a 7:49a 7:53a 7:56a 7:59a 8:02a 8:06a	7:18a 7:23a 7:33a 7:38a 7:41a 7:45a 7:47a 7:54a 8:02a 8:07a 8:14a	7:29a 7:41a 7:44a 7:48a 7:52a 7:55a 8:01a 8:05a 8:08a 8:15a 8:19a	7:35a 7:39a 7:48a 7:53a 7:57a 8:00a 8:06a 8:09a 8:13a	7:36a 7:47a 7:51a 7:54a 7:58a 8:01a 8:05a 8:12a 8:16a 8:19a 8:22a 8:28a 8:34a	7:47a 7:55a 8:01a 8:07a 8:11a 8:13a 8:19a 8:23a 8:26a 8:29a 8:32a 8:36a	7:48a 7:53a 8:03a 8:08a 8:11a 8:15a 8:17a 8:24a 8:28a 8:32a 8:37a 8:44a 8:47a	8:11a 8:14a 8:18a 8:22a 8:25a 8:31a 8:35a 8:35a 8:35a 8:45a	8:05a 8:09a 8:18a 8:23a 8:27a 8:30a 8:36a 8:39a 8:43a 8:50a 8:54a 8:57a	8:06a 8:17a 8:21a 8:24a 8:28a 8:31a 8:35a 8:42a 8:46a 8:49a 8:52a 8:58a 9:04a	8:17a 8:25a 8:31a 8:37a 8:41a 8:43a 8:49a 8:53a 8:56a 8:59a 9:02a 9:06a	8:18a 8:23a 8:33a 8:38a 8:41a 8:45a 8:47a 8:54a 8:58a 9:02a 9:07a	8:41a 8:44a 8:44a 8:52a 8:55a 9:01a 9:05a 9:08a 9:15a 9:19a	8:35a 8:39a 8:48a 8:53a 8:57a 9:00a 9:06a 9:09a 9:13a	8:36a 8:47a 8:51a 8:54a 8:58a 9:01a 9:05a 9:12a 9:16a 9:19a 9:22a	9:01a 9:01a 9:07a 9:11a 9:13a 9:19a 9:23a 9:26a 9:29a 9:32a 9:36a	9:03a 9:03a 9:08a 9:11a 9:15a 9:17a 9:24a 9:28a 9:32a 9:37a	9:11a 9:14a 9:18a 9:22a 9:25a 9:31a 9:35a 9:35a 9:45a 9:49a

10 Train Per Hour Schedule - With Transbay

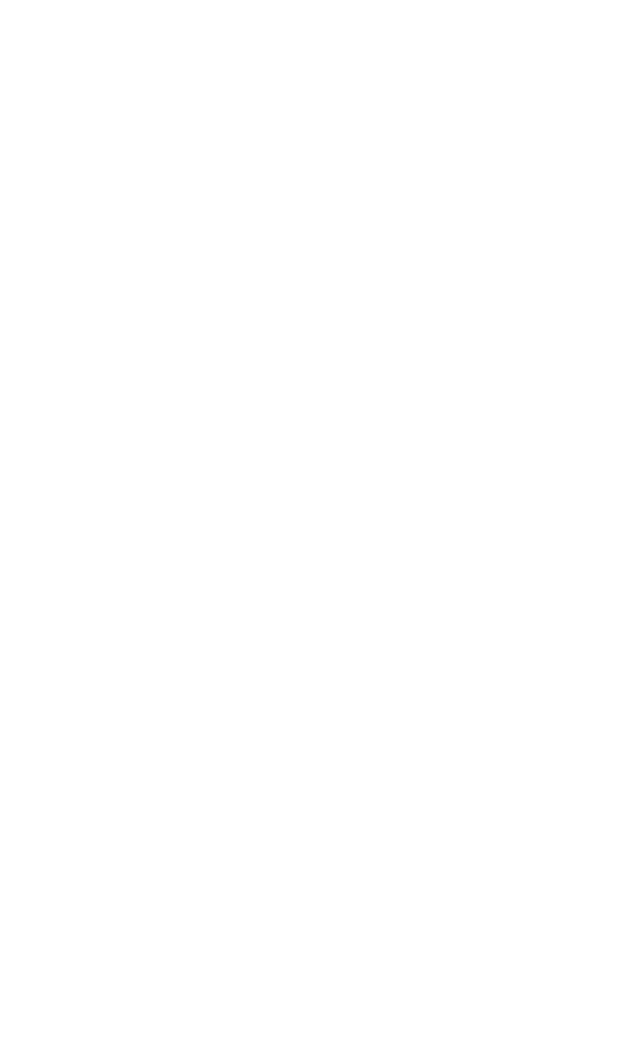
EMU: Limited/Locals

Northbound		0.270		10.270		11.070		10.075		1.07.		2.27		2.275	2.575			4.15.		4.075			4: 4Fm		4.570			F.1Fm		F-07m			F: 4Fm	
Tamien	0.000	9:27a		10:27a	11,000	11:27a	12,00n	12:27p	1,00n	1:27p	2,000	2:27p	2,00n	3:27p	3:57p	4.04n	4.12n	4:15p	4.24n	4:27p	1.24n	4,42n	4:45p	4.E.4n	4:57p	F.04n	E.12n	5:15p	F.24n	5:27p	E.24n	E. 12n	5:45p	E.E.In
San Jose Diridon	9:00a	9:30a	10:00a	10:30a	11:00a	11:30a	12:00p	12:30p	1:00p	1:30p	2:00p	2:30p	3:00p	3:30p	4:00p	4:06p	4:12p	4:18p	4:24p	4:30p	4:36p	4:42p	4:48p	4:54p	5:00p	5:06p	5:12p	5:18p	5:24p	5:30p	5:36p	5:42p	5:48p	5:54p
College Park Santa Clara	9:05a	9:35a	10:05a	10:35a	11:05a	11:35a	12:05p	12:35p	1:05p	1:35p	2:05p	2:35p	3:03p 3:06p	3:35p	4:05p		4:17p			4:35p		4:47p			5:05p		5:17p			5:35p		5:47p		
Lawrence	9:09a	9:39a	10:09a	10:39a	11:09a	11:39a	12:03p	12:39p	1:09p	1:39p	2:09p	2:39p	3:10p	3:39p	4.05p	4:14p	4.17p	4:26p	4:32p	4.55p	4:44p	4.47p	4:56p	5:02p	3.03p	5:14p	3.17p	5:26p	5:32p	5.55p	5:44p	J.47p	5:56p	6:02p
Sunnyvale	9:12a	9:42a	10:12a		11:12a	11:42a	12:12p	12:42p	1:12p	1:42p	2:12p	2:42p	3:13p	3:42p	4:11p	4:17p		ч.20р	4:35p	4:41p	4:47p		ч.оор	5:05p	5:11p	5:17p		3.20p	5:35p	5:41p	5:47p		3.30р	6:05p
Mountain View	9:17a	9:47a	10:12a		11:17a	11:47a	12:17p	12:47p	1:17p	1:47p	2:17p	2:47p	3:18p	3:47p	4:16p	ч.17р	4:26p	4:33p	4:40p	4:46p	ч.ч/р	4:56p	5:03p	5:10p	5:16p	3.17p	5:26p	5:33p	-	5:46p	5.47р	5:56p	6:03p	6:10p
San Antonio	9:20a	9:50a	10:17a	10:50a	11:20a	11:50a	12:17p	12:50p	1:20p	1:50p	2:20p	2:50p	3:21p	3:50p	ч. гор	4:24p	4:29p	ч.ээр	ч.чор	ч.чор	4:54p	4:59p	3.03р	3.10р	3.10p	5:24p	5:29p	3.33р	3.40р	3.40р	5:54p	5:59p	0.03р	0.10р
California Avenue	9:23a	9:53a	10:23a	10:53a	11:23a	11:53a	12:23p	12:53p	1:23p	1:53p	2:23p	2:53p	3:24p	3:53p		1.2 10	4:32p	4:38p			1.0 гр	5:02p	5:08p			0.2 IP	5:32p	5:38p			0.0 гр	6:02p	6:08p	
Palo Alto	9:27a	9:57a	10:27a	10:57a	11:27a	11:57a	12:27p	12:57p	1:27p	1:57p	2:27p	2:57p	3:28p	3:57p	4:23p	4:30p	4:36p	4:42p	4:47p	4:53p	5:00p	5:06p	5:12p	5:17p	5:23p	5:30p	5:36p	5:42p	5:47p	5:53p	6:00p	6:06p	6:12p	6:17p
Menlo Park	9:29a	9:59a	10:29a	10:59a	11:29a	11:59a	12:29p	12:59p	1:29p	1:59p	2:29p	2:59p	3:30p	3:59p	4:25p	4:32p	4:38p	4:44p		4:55p	5:02p	5:08p	5:14p	0.176	5:25p	5:32p	5:38p	5:44p	0.17	5:55p	6:02p	6:08p	6:14p	0p
Atherton	9:31a	10:01a		11:01a	11:31a	12:01p	12:31p	1:01p	1:31p	2:01p	2:31p	3:01p	3:32p	4:01p					4:50p					5:20p					5:50p					6:20p
Redwood City	9:35a	10:05a		11:05a	11:35a	12:05p	12:35p	1:05p	1:35p	2:05p	2:35p	3:05p	3:36p	4:05p	4:30p	4:37p	4:43p	4:49p	4:54p	5:00p	5:07p	5:13p	5:19p	5:24p	5:30p	5:37p	5:43p	5:49p	5:54p	6:00p	6:07p	6:13p	6:19p	6:24p
San Carlos	9:38a	10:08a		11:08a	11:38a	12:08p	12:38p	1:08p	1:38p	2:08p	2:38p	3:08p	3:39p	4:08p	4:33p		4:46p		4:57p	5:03p		5:16p		5:27p	5:33p		5:46p		5:57p	6:03p		6:16p		6:27p
Belmont	9:40a	10:10a	10:40a	11:10a	11:40a	12:10p	12:40p	1:10p	1:40p	2:10p	2:40p	3:10p	3:41p	4:10p		4:41p	4:48p				5:11p	5:18p			· ·	5:41p	5:48p				6:11p	6:18p		
Hillsdale	9:43a	10:13a	10:43a	11:13a	11:43a	12:13p	12:43p	1:13p	1:43p	2:13p	2:43p	3:13p	3:44p	4:13p	4:37p	4:44p		4:54p	5:01p	5:07p	5:14p		5:24p	5:31p	5:37p	5:44p		5:54p	6:01p	6:07p	6:14p		6:24p	6:31p
Hayward Park	9:45a	10:15a	10:45a	11:15a	11:45a	12:15p	12:45p	1:15p	1:45p	2:15p	2:45p	3:15p	3:46p	4:15p		•	4:52p	·	·	•		5:22p					5:52p		•	•		6:22p	•	·
San Mateo	9:47a	10:17a		11:17a	11:47a	12:17p	12:47p	1:17p	1:47p	2:17p	2:47p	3:17p	3:48p	4:17p	4:40p	4:47p		4:57p	5:04p	5:10p	5:17p	•	5:27p	5:34p	5:40p	5:47p		5:57p	6:04p	6:10p	6:17p		6:27p	6:34p
Burlingame	9:50a	10:20a	10:50a	11:20a	11:50a	12:20p	12:50p	1:20p	1:50p	2:20p	2:50p	3:20p	3:51p	4:20p		4:50p		5:00p	·		5:20p		5:30p			5:50p		6:00p		•	6:20p		6:30p	·
Broadway	9:52a	10:22a	10:52a	11:22a	11:52a	12:22p	12:52p	1:22p	1:52p	2:22p	2:52p	3:22p	3:53p	4:22p	4:44p	•		•		5:14p	•				5:44p	•				6:14p	•		•	
Millbrae	9:56a	10:26a	10:56a	11:26a	11:56a	12:26p	12:56p	1:26p	1:56p	2:26p	2:56p	3:26p	3:57p	4:26p	4:48p		4:59p	5:05p	5:10p	5:18p		5:29p	5:35p	5:40p	5:48p		5:59p	6:05p	6:10p	6:18p		6:29p	6:35p	6:40p
San Bruno	10:00a	10:30a	11:00a	11:30a	12:00p	12:30p	1:00p	1:30p	2:00p	2:30p	3:00p	3:30p	4:01p	4:30p		4:57p		5:09p			5:27p		5:39p			5:57p		6:09p			6:27p		6:39p	
So. San Francisco	10:04a	10:34a	11:04a	11:34a	12:04p	12:34p	1:04p	1:34p	2:04p	2:34p	3:04p	3:34p	4:05p	4:34p			5:06p	5:13p				5:36p	5:43p				6:06p	6:13p				6:36p	6:43p	
Bayshore	10:09a	10:39a	11:09a	11:39a	12:09p	12:39p	1:09p	1:39p	2:09p	2:39p	3:09p	3:39p	4:10p	4:39p					5:20p					5:50p					6:20p					6:50p
22nd Street	10:14a	10:44a	11:14a	11:44a	12:14p	12:44p	1:14p	1:44p	2:14p	2:44p	3:14p	3:44p	4:15p	4:44p	5:02p	5:08p	5:15p		5:25p	5:32p	5:38p	5:45p		5:55p	6:02p	6:08p	6:15p		6:25p	6:32p	6:38p	6:45p		6:55p
4th & King	10:18a	10:48a	11:18a	11:48a	12:18p	12:48p	1:18p	1:48p	2:18p	2:48p	3:18p	3:48p	4:19p	4:48p	5:06p	5:12p	5:19p	5:24p	5:29p	5:36p	5:42p	5:49p	5:54p	5:59p	6:06p	6:12p	6:19p	6:24p	6:29p	6:36p	6:42p	6:49p	6:54p	6:59p
Transbay															5:11p		5:24p			5:41p		5:54p		=	6:11p		6:24p			6:41p		6:54p		
Transbay	0.000	0.200	10,000	10:30a	11,000	11,200	12:00p	12:30p	1:00p	1,20n	2:00p	2:30p	3:00p	2,20p	4:00p	4:01p 4:06p	4:12p	4:13p 4:18p	4:24p	4,20n	4:31p 4:36p	4:42p	4:43p 4:48p	4:54p	5:00p	5:01p 5:06p	5:12p	5:13p 5:18p	E-24n	5:30p	5:31p 5:36p	5:42p	5:43p 5:48p	5:54p
4th & King 22nd Street	9:00a 9:05a	9:30a 9:35a	10:00a 10:05a	10:30a 10:35a	11:00a 11:05a	11:30a 11:35a	12:00p 12:05p	12:35p	1:00p 1:05p	1:30p 1:35p	2:00p 2:05p	2:35p	3:05p	3:30p 3:35p	4.00p	4.00p	4:12p 4:17p	4:16p 4:23p	4.24p	4:30p	4.30p	4:42p 4:47p	4:4op 4:53p	4.54p	5.00p	3.06p	5:12p 5:17p	5:16p 5:23p	5:24p	5.30p	5.30p	5:42p 5:47p	5:53p	5.54p
Bayshore	9:09a	9:39a	10:09a	10:39a	11:09a	11:39a	12:09p	12:39p	1:09p	1:39p	2:09p	2:39p	3:09p	3:39p		4:14p	4:17p 4:21p	4.23p			4:44p	4:47p 4:51p	4.55p			5:14p	5:17p	3.23p			5:44p	5:51p	5.55p	
South SF	9:14a	9:44a	10:04a	10:34a	11:14a	11:44a	12:14p	12:34p	1:14p	1:44p	2:14p	2:34p	3:14p	3:44p	4:11p	4:19p	4.21p		4:35p	4:41p	4:49p	4.51p		5:05p	5:11p	5:19p	J.21p		5:35p	5:41p	5:49p	3.51p		6:05p
San Bruno	9:18a	9:48a	10:14a	10:48a	11:18a	11:48a	12:14p	12:44p	1:18p	1:48p	2:14p	2:44p	3:14p	3:48p	4:11p	4.17p		4:33p	4.55p	4:45p	4.47p		5:03p	3.03p	5:15p	3.17p		5:33p	3.33p	5:45p	J.47p		6:03p	0.03р
Millbrae	9:21a	9:51a	10:10a	10:51a	11:21a	11:51a	12:21p	12:51p	1:21p	1:51p	2:21p	2:51p	3:21p	3:51p	4:18p	4:25p	4:30p	4:36p	4:41p	4:48p	4:55p	5:00p	5:06p	5:11p	5:18p	5:25p	5:30p	5:36p	5:41p	5:48p	5:55p	6:00p	6:06p	6:11p
Broadway	9:24a	9:54a	10:24a	10:54a	11:24a	11:54a	12:24p	12:54p	1:24p	1:54p	2:24p	2:54p	3:24p	3:54p	птор	1.20p	1.50р	1.50р	4:44p	1. тор	1.00р	0.00р	о.оор	5:11p	0.10р	0.20p	0.50р	0.00р	5:44p	о. тор	0.00р	0.00р	0.00р	6:14p
Burlingame	9:26a	9:56a	10:26a	10:56a	11:26a	11:56a	12:26p	12:56p	1:26p	1:56p	2:26p	2:56p	3:26p	3:56p			4:35p		4:46p			5:05p		5:16p			5:35p		5:46p			6:05p		6:16p
San Mateo	9:29a	9:59a	10:29a	10:59a	11:29a		12:29p			1:59p	2:29p	2:59p	3:29p	3:59p	4:23p	4:30p	F	4:41p	=F	4:53p	5:00p	=r	5:11p		5:23p	5:30p		5:41p		5:53p	6:00p	min	6:11p	
Hayward Park						11:59a	12.270	12:59p	1:29p		2.2/0																	ľ		- i	6:02p		r	
ria ywara r ark	9:31a	10:01a	10:31a	11:01a	11:31a	11:59a 12:01p	12:27p	12:59p 1:01p	1:29p 1:31p	2:01p	2:31p	3:01p	3:31p	4:01p		4:32p				•	5:02p					5:32p					6:05p	6:10p	6:15p	6:21p
Hillsdale	9:31a 9:34a	10:01a 10:04a		11:01a 11:04a								•			4:27p		4:40p	4:45p	4:51p	4:57p	5:02p 5:05p	5:10p	5:15p	5:21p	5:27p	5:32p 5:35p	5:40p	5:45p	5:51p	5:57p	dcu.o			
-			10:34a		11:31a	12:01p 12:04p	12:31p	1:01p	1:31p	2:01p	2:31p	3:01p	3:31p	4:01p		4:32p	4:40p 4:42p		4:51p	·			5:15p 5:17p	5:21p	5:27p		5:40p 5:42p	5:45p 5:47p	5:51p	5:5/p	o.usp	6:12p	6:17p	
Hillsdale	9:34a	10:04a	10:34a 10:36a	11:04a	11:31a 11:34a	12:01p 12:04p	12:31p 12:34p	1:01p 1:04p	1:31p 1:34p	2:01p 2:04p	2:31p 2:34p	3:01p 3:04p	3:31p 3:34p	4:01p 4:04p		4:32p		4:45p	4:51p 4:54p	·			-	5:21p 5:24p	5:27p 5:30p		•		5:51p 5:54p	5:5/p 6:00p	6.USP	6:12p 6:14p	6:17p	6:24p
Hillsdale Belmont	9:34a 9:36a	10:04a 10:06a	10:34a 10:36a 10:38a	11:04a 11:06a	11:31a 11:34a 11:36a	12:01p 12:04p 12:06p	12:31p 12:34p 12:36p	1:01p 1:04p 1:06p	1:31p 1:34p 1:36p	2:01p 2:04p 2:06p	2:31p 2:34p 2:36p	3:01p 3:04p 3:06p	3:31p 3:34p 3:36p	4:01p 4:04p 4:06p	4:27p	4:32p	4:42p	4:45p		4:57p		5:12p	-				5:42p		•		6:05p		6:17p	·
Hillsdale Belmont San Carlos	9:34a 9:36a 9:38a	10:04a 10:06a 10:08a	10:34a 10:36a 10:38a 10:44a	11:04a 11:06a 11:08a	11:31a 11:34a 11:36a 11:38a	12:01p 12:04p 12:06p 12:08p 12:14p	12:31p 12:34p 12:36p 12:38p	1:01p 1:04p 1:06p 1:08p	1:31p 1:34p 1:36p 1:38p	2:01p 2:04p 2:06p 2:08p	2:31p 2:34p 2:36p 2:38p	3:01p 3:04p 3:06p 3:08p	3:31p 3:34p 3:36p 3:38p	4:01p 4:04p 4:06p 4:08p	4:27p 4:30p	4:32p 4:35p	4:42p 4:44p	4:45p	4:54p	4:57p 5:00p	5:05p	5:12p 5:14p	-	5:24p	5:30p	5:35p	5:42p 5:44p		5:54p	6:00p		6:14p	6:17p	6:24p
Hillsdale Belmont San Carlos Redwood City	9:34a 9:36a 9:38a 9:44a	10:04a 10:06a 10:08a 10:14a	10:34a 10:36a 10:38a 10:44a 10:47a	11:04a 11:06a 11:08a 11:14a	11:31a 11:34a 11:36a 11:38a 11:44a	12:01p 12:04p 12:06p 12:08p 12:14p	12:31p 12:34p 12:36p 12:38p 12:44p	1:01p 1:04p 1:06p 1:08p 1:14p	1:31p 1:34p 1:36p 1:38p 1:44p	2:01p 2:04p 2:06p 2:08p 2:14p	2:31p 2:34p 2:36p 2:38p 2:44p	3:01p 3:04p 3:06p 3:08p 3:14p	3:31p 3:34p 3:36p 3:38p 3:44p	4:01p 4:04p 4:06p 4:08p 4:14p	4:27p 4:30p	4:32p 4:35p	4:42p 4:44p	4:45p	4:54p 5:00p	4:57p 5:00p	5:05p	5:12p 5:14p	-	5:24p 5:30p	5:30p	5:35p	5:42p 5:44p		5:54p 6:00p	6:00p		6:14p	6:17p 6:27p	6:24p 6:30p
Hillsdale Belmont San Carlos Redwood City Atherton	9:34a 9:36a 9:38a 9:44a 9:47a	10:04a 10:06a 10:08a 10:14a 10:17a	10:34a 10:36a 10:38a 10:44a 10:47a 10:49a	11:04a 11:06a 11:08a 11:14a 11:17a	11:31a 11:34a 11:36a 11:38a 11:44a 11:47a	12:01p 12:04p 12:06p 12:08p 12:14p 12:17p	12:31p 12:34p 12:36p 12:38p 12:44p 12:47p	1:01p 1:04p 1:06p 1:08p 1:14p 1:17p	1:31p 1:34p 1:36p 1:38p 1:44p 1:47p	2:01p 2:04p 2:06p 2:08p 2:14p 2:17p	2:31p 2:34p 2:36p 2:38p 2:44p 2:47p	3:01p 3:04p 3:06p 3:08p 3:14p 3:17p	3:31p 3:34p 3:36p 3:38p 3:44p 3:47p	4:01p 4:04p 4:06p 4:08p 4:14p 4:17p	4:27p 4:30p 4:36p	4:32p 4:35p 4:42p	4:42p 4:44p	4:45p 4:47p	4:54p 5:00p	4:57p 5:00p 5:06p	5:05p 5:12p	5:12p 5:14p	5:17p	5:24p 5:30p	5:30p 5:36p	5:35p 5:42p	5:42p 5:44p	5:47p	5:54p 6:00p	6:00p 6:06p	6:12p	6:14p	·	6:24p 6:30p
Hillsdale Belmont San Carlos Redwood City Atherton Menlo Park	9:34a 9:36a 9:38a 9:44a 9:47a 9:49a	10:04a 10:06a 10:08a 10:14a 10:17a 10:19a	10:34a 10:36a 10:38a 10:44a 10:47a 10:49a 10:52a	11:04a 11:06a 11:08a 11:14a 11:17a 11:19a	11:31a 11:34a 11:36a 11:38a 11:44a 11:47a 11:49a	12:01p 12:04p 12:06p 12:08p 12:14p 12:17p 12:19p	12:31p 12:34p 12:36p 12:38p 12:44p 12:47p 12:49p	1:01p 1:04p 1:06p 1:08p 1:14p 1:17p 1:19p	1:31p 1:34p 1:36p 1:38p 1:44p 1:47p 1:49p	2:01p 2:04p 2:06p 2:08p 2:14p 2:17p 2:19p	2:31p 2:34p 2:36p 2:38p 2:44p 2:47p 2:49p	3:01p 3:04p 3:06p 3:08p 3:14p 3:17p 3:19p	3:31p 3:34p 3:36p 3:38p 3:44p 3:47p 3:49p	4:01p 4:04p 4:06p 4:08p 4:14p 4:17p 4:19p	4:27p 4:30p 4:36p 4:40p	4:32p 4:35p 4:42p 4:46p	4:42p 4:44p 4:50p	4:45p 4:47p 4:57p	4:54p 5:00p 5:03p	4:57p 5:00p 5:06p 5:10p	5:05p 5:12p 5:16p	5:12p 5:14p 5:20p	5:17p 5:27p	5:24p 5:30p 5:33p	5:30p 5:36p 5:40p	5:35p 5:42p 5:46p	5:42p 5:44p 5:50p	5:47p 5:57p	5:54p 6:00p 6:03p	6:00p 6:06p 6:10p	6:12p 6:16p	6:14p 6:20p	6:27p	6:24p 6:30p 6:33p
Hillsdale Belmont San Carlos Redwood City Atherton Menlo Park Palo Alto	9:34a 9:36a 9:38a 9:44a 9:47a 9:49a 9:52a	10:04a 10:06a 10:08a 10:14a 10:17a 10:19a 10:22a	10:34a 10:36a 10:38a 10:44a 10:47a 10:49a 10:52a 10:55a	11:04a 11:06a 11:08a 11:14a 11:17a 11:19a 11:22a	11:31a 11:34a 11:36a 11:38a 11:44a 11:47a 11:49a 11:52a	12:01p 12:04p 12:06p 12:08p 12:14p 12:17p 12:19p 12:22p 12:25p	12:31p 12:34p 12:36p 12:38p 12:44p 12:47p 12:49p 12:52p	1:01p 1:04p 1:06p 1:08p 1:14p 1:17p 1:19p 1:22p	1:31p 1:34p 1:36p 1:38p 1:44p 1:47p 1:49p 1:52p	2:01p 2:04p 2:06p 2:08p 2:14p 2:17p 2:19p 2:22p	2:31p 2:34p 2:36p 2:38p 2:44p 2:47p 2:49p 2:52p	3:01p 3:04p 3:06p 3:08p 3:14p 3:17p 3:19p 3:22p	3:31p 3:34p 3:36p 3:38p 3:44p 3:47p 3:49p 3:52p	4:01p 4:04p 4:06p 4:08p 4:14p 4:17p 4:19p 4:22p	4:27p 4:30p 4:36p 4:40p	4:32p 4:35p 4:42p 4:46p	4:42p 4:44p 4:50p	4:45p 4:47p 4:57p 5:00p	4:54p 5:00p 5:03p	4:57p 5:00p 5:06p 5:10p	5:05p 5:12p 5:16p	5:12p 5:14p 5:20p	5:17p 5:27p 5:30p	5:24p 5:30p 5:33p	5:30p 5:36p 5:40p	5:35p 5:42p 5:46p	5:42p 5:44p 5:50p 5:55p	5:47p 5:57p 6:00p	5:54p 6:00p 6:03p	6:00p 6:06p 6:10p	6:12p 6:16p	6:14p 6:20p 6:25p	6:27p 6:30p	6:24p 6:30p 6:33p
Hillsdale Belmont San Carlos Redwood City Atherton Menlo Park Palo Alto California Ave.	9:34a 9:36a 9:38a 9:44a 9:47a 9:49a 9:52a 9:55a	10:04a 10:06a 10:08a 10:14a 10:17a 10:19a 10:22a 10:25a 10:28a	10:34a 10:36a 10:38a 10:44a 10:47a 10:49a 10:52a 10:55a 10:58a	11:04a 11:06a 11:08a 11:14a 11:17a 11:19a 11:22a 11:25a	11:31a 11:34a 11:36a 11:38a 11:44a 11:47a 11:49a 11:52a 11:55a	12:01p 12:04p 12:06p 12:08p 12:14p 12:17p 12:19p 12:22p 12:25p	12:31p 12:34p 12:36p 12:38p 12:44p 12:47p 12:49p 12:52p 12:55p	1:01p 1:04p 1:06p 1:08p 1:14p 1:17p 1:19p 1:22p 1:25p	1:31p 1:34p 1:36p 1:38p 1:44p 1:47p 1:49p 1:52p 1:55p	2:01p 2:04p 2:06p 2:08p 2:14p 2:17p 2:19p 2:22p 2:25p	2:31p 2:34p 2:36p 2:38p 2:44p 2:47p 2:49p 2:52p 2:55p	3:01p 3:04p 3:06p 3:08p 3:14p 3:17p 3:19p 3:22p 3:25p	3:31p 3:34p 3:36p 3:38p 3:44p 3:47p 3:49p 3:52p 3:55p	4:01p 4:04p 4:06p 4:08p 4:14p 4:17p 4:19p 4:22p 4:25p	4:27p 4:30p 4:36p 4:40p	4:32p 4:35p 4:42p 4:46p	4:42p 4:44p 4:50p 4:55p 4:55p	4:45p 4:47p 4:57p 5:00p 5:03p	4:54p 5:00p 5:03p	4:57p 5:00p 5:06p 5:10p	5:05p 5:12p 5:16p	5:12p 5:14p 5:20p 5:25p 5:25p 5:28p	5:17p 5:27p 5:30p 5:33p	5:24p 5:30p 5:33p	5:30p 5:36p 5:40p	5:35p 5:42p 5:46p	5:42p 5:44p 5:50p 5:55p 5:55p	5:47p 5:57p 6:00p 6:03p	5:54p 6:00p 6:03p	6:00p 6:06p 6:10p	6:12p 6:16p	6:14p 6:20p 6:25p 6:28p	6:27p 6:30p 6:33p	6:24p 6:30p 6:33p
Hillsdale Belmont San Carlos Redwood City Atherton Menlo Park Palo Alto California Ave. San Antonio	9:34a 9:36a 9:38a 9:44a 9:47a 9:49a 9:52a 9:55a	10:04a 10:06a 10:08a 10:14a 10:17a 10:19a 10:22a 10:25a 10:28a	10:34a 10:36a 10:38a 10:44a 10:47a 10:49a 10:52a 10:55a 10:58a 11:02a	11:04a 11:06a 11:08a 11:14a 11:17a 11:19a 11:22a 11:25a 11:28a	11:31a 11:34a 11:36a 11:38a 11:44a 11:47a 11:49a 11:52a 11:55a 11:58a	12:01p 12:04p 12:06p 12:08p 12:14p 12:17p 12:19p 12:22p 12:25p 12:28p	12:31p 12:34p 12:36p 12:38p 12:44p 12:47p 12:49p 12:52p 12:55p 12:58p	1:01p 1:04p 1:06p 1:08p 1:14p 1:17p 1:19p 1:22p 1:25p 1:28p	1:31p 1:34p 1:36p 1:38p 1:44p 1:47p 1:49p 1:52p 1:55p 1:58p	2:01p 2:04p 2:06p 2:08p 2:14p 2:17p 2:19p 2:22p 2:25p 2:28p	2:31p 2:34p 2:36p 2:38p 2:44p 2:47p 2:49p 2:52p 2:55p 2:55p	3:01p 3:04p 3:06p 3:08p 3:14p 3:17p 3:19p 3:22p 3:25p 3:28p	3:31p 3:34p 3:36p 3:38p 3:44p 3:47p 3:49p 3:52p 3:55p 3:55p	4:01p 4:04p 4:06p 4:08p 4:14p 4:17p 4:19p 4:22p 4:25p 4:28p	4:27p 4:30p 4:36p 4:40p 4:43p	4:32p 4:35p 4:42p 4:46p 4:49p	4:42p 4:44p 4:50p 4:55p 4:55p 5:01p	4:45p 4:47p 4:57p 5:00p 5:03p	4:54p 5:00p 5:03p 5:07p	4:57p 5:00p 5:06p 5:10p 5:13p	5:05p 5:12p 5:16p 5:19p	5:12p 5:14p 5:20p 5:25p 5:28p 5:31p	5:17p 5:27p 5:30p 5:33p	5:24p 5:30p 5:33p 5:37p	5:30p 5:36p 5:40p 5:43p	5:35p 5:42p 5:46p 5:49p	5:42p 5:44p 5:50p 5:55p 5:55p 5:58p 6:01p	5:47p 5:57p 6:00p 6:03p	5:54p 6:00p 6:03p 6:07p	6:00p 6:06p 6:10p 6:13p	6:12p 6:16p 6:19p	6:14p 6:20p 6:25p 6:28p 6:31p	6:27p 6:30p 6:33p	6:24p 6:30p 6:33p 6:37p
Hillsdale Belmont San Carlos Redwood City Atherton Menlo Park Palo Alto California Ave. San Antonio Mountain View	9:34a 9:36a 9:38a 9:44a 9:47a 9:49a 9:52a 9:55a 9:58a 10:02a	10:04a 10:06a 10:08a 10:14a 10:17a 10:19a 10:22a 10:25a 10:28a 10:32a	10:34a 10:36a 10:38a 10:44a 10:47a 10:52a 10:55a 10:58a 11:02a 11:06a	11:04a 11:06a 11:08a 11:14a 11:17a 11:19a 11:22a 11:25a 11:28a 11:32a	11:31a 11:34a 11:36a 11:38a 11:44a 11:47a 11:49a 11:52a 11:55a 11:58a 12:02p	12:01p 12:04p 12:06p 12:08p 12:14p 12:17p 12:19p 12:22p 12:25p 12:28p 12:32p	12:31p 12:34p 12:36p 12:38p 12:44p 12:47p 12:49p 12:52p 12:55p 12:58p 1:02p	1:01p 1:04p 1:06p 1:08p 1:14p 1:17p 1:19p 1:22p 1:25p 1:28p	1:31p 1:34p 1:36p 1:38p 1:44p 1:47p 1:47p 1:52p 1:55p 1:58p 2:02p	2:01p 2:04p 2:06p 2:08p 2:14p 2:17p 2:19p 2:22p 2:25p 2:28p 2:32p	2:31p 2:34p 2:36p 2:38p 2:44p 2:47p 2:49p 2:52p 2:55p 2:58p 3:02p	3:01p 3:04p 3:06p 3:08p 3:14p 3:17p 3:19p 3:22p 3:25p 3:28p 3:32p	3:31p 3:34p 3:36p 3:38p 3:44p 3:47p 3:47p 3:52p 3:55p 3:55p 4:02p	4:01p 4:04p 4:06p 4:08p 4:14p 4:17p 4:19p 4:22p 4:25p 4:28p 4:32p	4:27p 4:30p 4:36p 4:40p 4:43p	4:32p 4:35p 4:42p 4:46p 4:49p	4:42p 4:44p 4:50p 4:55p 4:55p 5:01p	4:45p 4:47p 4:57p 5:00p 5:03p 5:06p	4:54p 5:00p 5:03p 5:07p	4:57p 5:00p 5:06p 5:10p 5:13p 5:20p 5:26p	5:05p 5:12p 5:16p 5:19p 5:26p	5:12p 5:14p 5:20p 5:25p 5:28p 5:31p	5:17p 5:27p 5:30p 5:33p 5:36p	5:24p 5:30p 5:33p 5:37p	5:30p 5:36p 5:40p 5:43p 5:50p	5:35p 5:42p 5:46p 5:49p 5:56p	5:42p 5:44p 5:50p 5:55p 5:55p 5:58p 6:01p	5:47p 5:57p 6:00p 6:03p 6:06p	5:54p 6:00p 6:03p 6:07p	6:00p 6:06p 6:10p 6:13p	6:12p 6:16p 6:19p	6:14p 6:20p 6:25p 6:28p 6:31p	6:27p 6:30p 6:33p 6:36p	6:24p 6:30p 6:33p 6:37p
Hillsdale Belmont San Carlos Redwood City Atherton Menlo Park Palo Alto California Ave. San Antonio Mountain View Sunnyvale Lawrence Santa Clara	9:34a 9:36a 9:38a 9:44a 9:47a 9:52a 9:55a 9:55a 10:02a 10:06a	10:04a 10:06a 10:08a 10:14a 10:17a 10:19a 10:22a 10:25a 10:32a 10:36a 10:39a	10:34a 10:36a 10:38a 10:44a 10:47a 10:52a 10:55a 10:58a 11:02a 11:06a 11:09a	11:04a 11:06a 11:08a 11:14a 11:17a 11:19a 11:22a 11:25a 11:32a 11:36a 11:39a	11:31a 11:34a 11:36a 11:38a 11:44a 11:47a 11:52a 11:55a 11:58a 12:02p 12:06p	12:01p 12:04p 12:06p 12:08p 12:14p 12:17p 12:19p 12:22p 12:25p 12:28p 12:32p 12:36p 12:39p	12:31p 12:34p 12:36p 12:38p 12:44p 12:47p 12:47p 12:52p 12:55p 12:55p 1:02p 1:06p	1:01p 1:04p 1:06p 1:08p 1:14p 1:17p 1:19p 1:22p 1:25p 1:28p 1:32p	1:31p 1:34p 1:36p 1:38p 1:44p 1:47p 1:47p 1:52p 1:55p 1:55p 2:02p 2:06p	2:01p 2:04p 2:06p 2:08p 2:14p 2:17p 2:19p 2:22p 2:25p 2:28p 2:32p 2:36p	2:31p 2:34p 2:36p 2:38p 2:44p 2:47p 2:49p 2:52p 2:55p 2:55p 3:02p 3:06p	3:01p 3:04p 3:06p 3:08p 3:14p 3:17p 3:19p 3:22p 3:25p 3:28p 3:32p 3:36p	3:31p 3:34p 3:36p 3:38p 3:44p 3:47p 3:49p 3:52p 3:55p 3:58p 4:02p 4:06p 4:09p 4:14p	4:01p 4:04p 4:06p 4:08p 4:14p 4:17p 4:19p 4:22p 4:25p 4:28p 4:32p 4:36p	4:27p 4:30p 4:36p 4:40p 4:43p 4:50p	4:32p 4:35p 4:42p 4:46p 4:49p 4:56p 5:00p	4:42p 4:44p 4:50p 4:55p 4:55p 5:01p	4:45p 4:47p 4:57p 5:00p 5:03p 5:06p	4:54p 5:00p 5:03p 5:07p	4:57p 5:00p 5:06p 5:10p 5:13p	5:05p 5:12p 5:16p 5:19p 5:26p 5:30p	5:12p 5:14p 5:20p 5:25p 5:28p 5:31p	5:27p 5:27p 5:30p 5:33p 5:36p	5:24p 5:30p 5:33p 5:37p	5:30p 5:36p 5:40p 5:43p	5:35p 5:42p 5:46p 5:49p 5:56p 6:00p	5:42p 5:44p 5:50p 5:55p 5:55p 5:58p 6:01p	5:47p 5:57p 6:00p 6:03p 6:06p 6:13p	5:54p 6:00p 6:03p 6:07p	6:00p 6:06p 6:10p 6:13p	6:12p 6:16p 6:19p 6:26p 6:30p	6:14p 6:20p 6:25p 6:28p 6:31p	6:27p 6:30p 6:33p 6:36p 6:43p	6:24p 6:30p 6:33p 6:37p
Hillsdale Belmont San Carlos Redwood City Atherton Menlo Park Palo Alto California Ave. San Antonio Mountain View Sunnyvale Lawrence Santa Clara College Park	9:34a 9:36a 9:38a 9:44a 9:47a 9:52a 9:55a 9:58a 10:02a 10:06a 10:14a	10:04a 10:06a 10:08a 10:14a 10:17a 10:19a 10:22a 10:25a 10:32a 10:36a 10:39a 10:44a	10:34a 10:36a 10:38a 10:44a 10:47a 10:52a 10:55a 10:58a 11:02a 11:06a 11:09a	11:04a 11:06a 11:08a 11:14a 11:17a 11:19a 11:22a 11:25a 11:28a 11:32a 11:36a 11:39a 11:44a	11:31a 11:34a 11:36a 11:38a 11:44a 11:47a 11:52a 11:55a 11:58a 12:02p 12:06p 12:09p	12:01p 12:04p 12:06p 12:08p 12:14p 12:17p 12:19p 12:22p 12:25p 12:28p 12:36p 12:39p 12:44p	12:31p 12:34p 12:36p 12:38p 12:44p 12:47p 12:49p 12:52p 12:55p 12:58p 1:02p 1:06p 1:09p	1:01p 1:04p 1:06p 1:08p 1:14p 1:17p 1:19p 1:22p 1:25p 1:28p 1:32p 1:36p 1:34p	1:31p 1:34p 1:36p 1:38p 1:44p 1:47p 1:52p 1:55p 1:55p 2:02p 2:06p 2:09p 2:14p	2:01p 2:04p 2:06p 2:08p 2:14p 2:17p 2:19p 2:22p 2:25p 2:28p 2:32p 2:36p 2:39p 2:44p	2:31p 2:34p 2:36p 2:38p 2:44p 2:47p 2:49p 2:52p 2:55p 2:55p 3:02p 3:06p 3:09p 3:14p	3:01p 3:04p 3:06p 3:08p 3:14p 3:17p 3:19p 3:22p 3:25p 3:28p 3:32p 3:36p 3:34p	3:31p 3:34p 3:36p 3:38p 3:44p 3:47p 3:52p 3:55p 3:55p 4:02p 4:06p 4:09p 4:14p 4:16p	4:01p 4:04p 4:06p 4:08p 4:14p 4:17p 4:19p 4:22p 4:25p 4:28p 4:32p 4:36p 4:34p 4:44p	4:27p 4:30p 4:36p 4:40p 4:43p 4:50p 4:56p 5:01p	4:32p 4:35p 4:42p 4:46p 4:49p 4:56p 5:00p 5:03p	4:42p 4:44p 4:50p 4:55p 4:58p 5:01p 5:05p	4:45p 4:47p 4:57p 5:00p 5:03p 5:06p 5:13p 5:16p	4:54p 5:00p 5:03p 5:07p 5:14p 5:18p 5:25p	4:57p 5:00p 5:06p 5:10p 5:13p 5:20p 5:26p 5:31p	5:05p 5:12p 5:16p 5:19p 5:26p 5:30p 5:33p	5:12p 5:14p 5:20p 5:25p 5:28p 5:31p 5:35p	5:17p 5:27p 5:30p 5:33p 5:36p 5:43p 5:44p	5:24p 5:30p 5:33p 5:37p 5:44p 5:48p	5:30p 5:36p 5:40p 5:43p 5:50p 5:56p 6:01p	5:35p 5:42p 5:46p 5:49p 5:56p 6:00p 6:03p	5:42p 5:44p 5:50p 5:55p 5:58p 6:01p 6:05p	5:47p 5:57p 6:00p 6:03p 6:06p 6:13p 6:16p	5:54p 6:00p 6:03p 6:07p 6:14p 6:18p	6:00p 6:06p 6:10p 6:13p 6:20p 6:26p 6:31p	6:12p 6:16p 6:19p 6:26p 6:30p 6:33p	6:14p 6:20p 6:25p 6:28p 6:31p 6:35p	6:27p 6:30p 6:33p 6:36p 6:43p 6:46p	6:24p 6:30p 6:33p 6:37p 6:44p 6:48p
Hillsdale Belmont San Carlos Redwood City Atherton Menlo Park Palo Alto California Ave. San Antonio Mountain View Sunnyvale Lawrence Santa Clara	9:34a 9:36a 9:38a 9:44a 9:47a 9:52a 9:55a 9:55a 10:02a 10:06a 10:09a	10:04a 10:06a 10:08a 10:14a 10:17a 10:19a 10:22a 10:25a 10:32a 10:36a 10:39a 10:44a	10:34a 10:36a 10:38a 10:44a 10:47a 10:52a 10:55a 10:58a 11:02a 11:06a 11:09a 11:14a	11:04a 11:06a 11:08a 11:14a 11:17a 11:19a 11:22a 11:25a 11:32a 11:36a 11:39a	11:31a 11:34a 11:36a 11:38a 11:44a 11:47a 11:52a 11:55a 11:58a 12:02p 12:06p 12:09p	12:01p 12:04p 12:06p 12:08p 12:14p 12:17p 12:19p 12:22p 12:25p 12:28p 12:32p 12:36p 12:34p	12:31p 12:34p 12:36p 12:38p 12:44p 12:47p 12:49p 12:52p 12:55p 12:58p 1:02p 1:06p 1:09p	1:01p 1:04p 1:06p 1:08p 1:14p 1:17p 1:19p 1:22p 1:25p 1:28p 1:32p 1:36p 1:39p	1:31p 1:34p 1:36p 1:38p 1:44p 1:47p 1:52p 1:55p 1:58p 2:02p 2:06p 2:09p	2:01p 2:04p 2:04p 2:08p 2:14p 2:17p 2:19p 2:22p 2:25p 2:28p 2:32p 2:36p 2:39p	2:31p 2:34p 2:36p 2:38p 2:44p 2:47p 2:52p 2:55p 2:55p 2:58p 3:02p 3:06p 3:09p	3:01p 3:04p 3:06p 3:08p 3:14p 3:17p 3:19p 3:22p 3:25p 3:28p 3:32p 3:36p 3:39p	3:31p 3:34p 3:36p 3:38p 3:44p 3:47p 3:49p 3:52p 3:55p 3:58p 4:02p 4:06p 4:09p 4:14p	4:01p 4:04p 4:06p 4:08p 4:14p 4:17p 4:19p 4:22p 4:25p 4:28p 4:32p 4:36p 4:39p	4:27p 4:30p 4:36p 4:40p 4:43p 4:50p 4:50p 5:01p	4:32p 4:35p 4:42p 4:46p 4:49p 4:56p 5:00p 5:03p	4:42p 4:44p 4:50p 4:55p 4:58p 5:01p 5:05p	4:45p 4:47p 4:57p 5:00p 5:03p 5:06p 5:13p 5:16p	4:54p 5:00p 5:03p 5:07p 5:14p 5:18p	4:57p 5:00p 5:06p 5:10p 5:13p 5:20p 5:26p 5:31p	5:05p 5:12p 5:16p 5:19p 5:26p 5:30p 5:33p	5:12p 5:14p 5:20p 5:25p 5:28p 5:31p 5:35p	5:17p 5:27p 5:30p 5:33p 5:36p 5:43p 5:44p	5:24p 5:30p 5:33p 5:37p 5:44p 5:44p	5:30p 5:36p 5:40p 5:43p 5:50p	5:35p 5:42p 5:46p 5:49p 5:56p 6:00p	5:42p 5:44p 5:50p 5:55p 5:55p 6:01p 6:05p	5:47p 5:57p 6:00p 6:03p 6:06p 6:13p	5:54p 6:00p 6:03p 6:07p 6:14p 6:18p	6:00p 6:06p 6:10p 6:13p 6:20p	6:12p 6:16p 6:19p 6:26p 6:30p 6:33p	6:14p 6:20p 6:25p 6:28p 6:31p 6:35p	6:27p 6:30p 6:33p 6:36p 6:43p 6:46p	6:24p 6:30p 6:33p 6:37p 6:44p 6:48p

10 Train Per Hour Schedule - With Transbay

EMU: Limited/Locals

Tomion	E.E7n			4.1En		4.27n			4.4En				0,27n	0.27n		
Tamien	5:57p	/ 0/	/ 10-	6:15p	(24-	6:27p	(2/	/ 10-	6:45p	/ E4::	7.00-	7.00-	8:27p	9:27p	10.20-	04
San Jose Diridon	6:00p	6:06p	6:12p	6:18p	6:24p	6:30p	6:36p	6:42p	6:48p	6:54p	7:00p	7:30p	8:30p	9:30p	10:30p	81
College Park Santa Clara	6:05p		6:17p			6:35p		6:47p			7:05p	7:35p	8:35p	9:35p	10:35p	
Lawrence	0.05p	6:14p	0.17μ	6:26p	6:32p	0.33p	6:44p	0.47p	6:56p	7:02p	7:09p	7.33p 7:39p	8:39p	9:39p	10:35p	
Sunnyvale	6:11p	6:17p		0.20p	6:35p	6:41p	6:47p		0.50p	7:02p 7:05p	7:09p 7:12p	7:39p 7:42p	8:42p	9:42p	10:39p 10:42p	
Mountain View	6:16p	0.17μ	6:26p	6:33p	6:40p	6:46p	0.47p	6:56p	7:03p	7:03p 7:10p	7:12p 7:17p	7:42p 7:47p	8:47p	9:42p 9:47p	10:42p 10:47p	
San Antonio	0.10р	6:24p	6:29p	0.33p	0.40p	0.40p	6:54p	6:59p	7.03p	7.10p	7:17p 7:20p	7:50p	8:50p	9:50p	10:47p	
California Avenue		0.24p	6:32p	6:38p			0.54p	7:02p	7:08p		7:23p	7:53p	8:53p	9:53p	10:53p	
Palo Alto	6:23p	6:30p	6:36p	6:42p	6:47p	6:53p	7:00p	7:02p 7:06p	7:00p 7:12p	7:17p	7:27p	7:57p	8:57p	9:57p	10:53p	
Menlo Park	6:25p	6:32p	6:38p	6:44p	0.47p	6:55p	7:00p 7:02p	7:00p 7:08p	7:12p 7:14p	7.17β	7:27p	7:59p	8:59p	9:59p	10:57p	
Atherton	0.23μ	0.32p	0.30p	0.44μ	6:50p	0.55p	7.02p	7.00р	7.1 4 p	7:20p	7:27p 7:31p	8:01p	9:01p	10:01p	10:37p 11:01p	
Redwood City	6:30p	6:37p	6:43p	6:49p	6:54p	7:00p	7:07p	7:13p	7:19p	7:24p	7:35p	8:05p	9:05p	10:05p	11:05p	
San Carlos	6:33p	0.57p	6:46p	0.47β	6:57p	7:03p	7.07р	7:16p	7.17β	7:27p	7:38p	8:08p	9:08p	10:03p	11:08p	
Belmont	0.55р	6:41p	6:48p		0.57p	7.03р	7:11p	7:18p		7.27p	7:40p	8:10p	9:10p	10:10p	11:10p	
Hillsdale	6:37p	6:44p	0.40р	6:54p	7:01p	7:07p	7:14p	7.10p	7:24p	7:31p	7:43p	8:13p	9:13p	10:13p	11:13p	
Hayward Park	0.57β	0.44р	6:52p	0.54р	7.01p	7.07р	7.1 1 p	7:22p	7.2-тр	7.51p	7:45p	8:15p	9:15p	10:15p	11:15p	
San Mateo	6:40p	6:47p	0.52p	6:57p	7:04p	7:10p	7:17p	7.22p	7:27p	7:34p	7:47p	8:17p	9:17p	10:13p	11:17p	
Burlingame	0.40р	6:50p		7:00p	7.04р	7.10p	7:17p		7:30p	7.5тр	7:50p	8:20p	9:20p	10:17p	11:20p	
Broadway	6:44p	0.50р		7.00р		7:14p	7.20p		7.50p		7:52p	8:22p	9:22p	10:20p	11:22p	
Millbrae	6:48p		6:59p	7:05p	7:10p	7:18p		7:29p	7:35p	7:40p	7:56p	8:26p	9:26p	10:26p	11:26p	
San Bruno	0.10р	6:57p	0.07р	7:09p	7.10p	7.10p	7:27p	7.27p	7:39p	7.10p	8:00p	8:30p	9:30p	10:30p	11:30p	
So. San Francisco		0.07р	7:06p	7:13p			7.27P	7:36p	7:43p		8:04p	8:34p	9:34p	10:34p	11:34p	
Bayshore			7.00р	7.10p	7:20p			7.50р	7.10p	7:50p	8:09p	8:39p	9:39p	10:39p	11:39p	
22nd Street	7:02p	7:08p	7:15p		7:25p	7:32p	7:38p	7:45p		7:55p	8:14p	8:44p	9:44p	10:44p	11:44p	
4th & King	7:06p	7:12p	7:19p	7:24p	7:29p	7:36p	7:42p	7:49p	7:54p	7:59p	8:18p	8:48p	9:48p	10:48p	11:48p	
Transbay	7:11p	7.12p	7:17p	7.24p	7.27μ	7:41p	7.42p	7:54p	7.5-р	7.57p	0.10р	о.чор	7.40р	10.40р	тт. тор	
Southbound Transbay	5.00	5:01p	5.10	5:13p	5.04	5.00	5:31p	5.40	5:43p	5.54		0.00	0.00	40.00	10.01	0.4
4th & King	5:00p	5:06p	5:12p	5:18p	5:24p	5:30p	5:36p	5:42p	5:48p	5:54p	7:30p	8:30p	9:30p	10:30p	12:01a	81
22nd Street			5:17p	5:23p												
Bayshore								5:47p	5:53p		7:35p	8:35p	9:35p	10:35p	12:06a	
South SF		5:14p	5:21p	·			5:44p	5:47p 5:51p	5:53p		7:35p 7:39p	8:39p	9:39p	10:39p	12:10a	
	5:11p	5:14p 5:19p	5:21p		5:35p	5:41p	5:44p 5:49p			6:05p	7:35p 7:39p 7:44p	8:39p 8:44p	9:39p 9:44p	10:39p 10:44p	12:10a 12:15a	
San Bruno	5:15p	5:19p		5:33p		5:45p	5:49p	5:51p	6:03p		7:35p 7:39p 7:44p 7:48p	8:39p 8:44p 8:48p	9:39p 9:44p 9:48p	10:39p 10:44p 10:48p	12:10a 12:15a 12:19a	
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California High Speed Train Project



TECHNICAL MEMORANDUM

CONCEPT LEVEL OPERATIONS ANALYSIS FOR SAN FRANCISCO TERMINALS

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Revision	Date	Description	

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CONCEPT LEVEL OPERATIONS ANALYSIS FOR SAN FRANCISCO TERMINALS

1.0 EXECUTIVE SUMMARY

A concept level analysis was undertaken to describe whether the capacity of six alternative Downtown San Francisco Terminal configurations could feasibly support the draft conceptual 2035 service levels for both the California High Speed Train Project (HST) and Caltrain (2025). This study examined the operational feasibility of six different downtown terminal track configurations and operating scenarios using future service forecasts depicting both HST and Caltrain passenger train volumes. These scenarios focused on the Downtown San Francisco Terminal and the alternatives are described as follows:

- Transbay Transit Center (HST Only) A total of six platform tracks for the HST at the
 Transbay Transit Center. Three approach interlocking "throat" tracks to provide universal
 access to all station platform tracks. Caltrain operations assumed to originate and terminate
 at Fourth and King Terminal and therefore were not part of the analysis of this alternative.
- 2. Fourth and King Street (HST Only) A total of eight platform tracks for the HST at the Fourth and King Terminal. Four approach interlocking "throat" tracks to provide universal access to all station platform tracks. Caltrain operations assumed to originate and terminate at the TTC and therefore were not part of the analysis of this alternative.
- 3. Transbay Transit Center and Fourth and King Street A "shared use" (HST and Caltrain) joint terminal option including both the Transbay Transit Center (TTC) and the Fourth and King Terminal providing a total of eight platform tracks for the HST (4 at the TTC and 4 at Fourth and King) and a total of seven platform tracks for Caltrain (2 at the TTC and 5 at Fourth and King).
- 4. Fourth and King Street (Stacked Station) A "shared use" terminal option located at Fourth and King Street assuming an additional "level" of tracks and platforms to increase terminal capacity if sufficient capacity to accommodate the HST service plan could not be accomplished with the preceding options. The results of the Alternative 3 analysis indicated that the capacity provided (in Alternative 3) could feasibly support the HST service assumptions. Consequently, this option was removed from further consideration
- 5. Beale Street (All HST service and Caltrain)- A joint terminal option (for Caltrain) between Beale Street and Fourth and King Street providing a total of 8 platform tracks for the HST and 2 platform tracks for Caltrain. In this option there was no change to the Terminal at Fourth and King Street since no HST were assigned there.
- 6. Beale Street and Fourth and King Street- A joint terminal option between a proposed Beale Street Terminal and the Fourth and King Terminal providing a total of ten platform tracks for the HST (6 at Beale Street and 4 at Fourth and King) and a total of seven platform tracks for Caltrain (2 at Beale Street and 5 at Fourth and King).

The future daily service levels assumed for the HST were initially based on the California High Speed Rail Authority (Authority) Phase 1 Service Plan. Following this step and using this (Phase 1) service plan, additional ridership forecast data was developed and a draft conceptual service plan was crafted to reflect a preliminary level of service for the full build out year of 2035. While this preliminary full build service plan is conceptual in nature, and therefore subject to refinement, it was utilized to approximate an operating timetable that identifies 10 to 12 HST per hour operating in to and out of the San Francisco Terminal during the peak periods.



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Future Caltrain service, for this analysis, was based on the JPB draft conceptual 2025 Service Plan developed by Caltrain and provided to the Authority. This (Caltrain) service plan assumes a total of 10 trains per hour during the peak periods.

Each of the terminal/station track configuration concepts was modeled using the Berkeley Simulation Software Rail Traffic Controller (RTC) to estimate the feasibility of the various track alternatives to support the assumed train volumes. In summary, the results of the study and associated analysis were as follows:

- Alternative 1 (See Figure 1) This alternative, with a total of six platform tracks for the HST does not provide ample capacity for the forecast HST train service levels.
- Alternative 2 (See Figure 2) The analysis determined that the approach interlocking "throat" track configuration for Alternative 2 did not provide the throughput capacity necessary to support the forecast HST service levels. The design configuration presented a potential "single point of failure" where one switch is the single access point to five platform tracks, thus impeding efficient operations by seriously limiting parallel movements into and out of the terminal.
- Alternative 3 (See Figure 3) The alignment configuration developed for the Alternative 3
 two terminal/station option provides for sufficient parallel train movement capability thereby
 minimizing conflicts between arriving and departing trains. In addition, the number of platform
 tracks or "edges" provided by the combination of both terminals (8 for the HST and 7 for
 Caltrain) is sufficient to accommodate the assumed scheduled turnaround times (including
 the 30 minute exception for TTC) for both the HST and Caltrain.
- Alternative 4 This alternative was not subject to this study process. It was developed as a
 "fall back" or contingency to Alternative 3 should this (Alternative 3) concept configuration
 prove incapable of supporting the proposed service levels of both Caltrain and the HST. The
 results of the Alternative 3 analysis confirmed the ability of this (Alternative 3) terminal
 configuration to support the proposed service levels; consequently, it was not necessary to
 conduct an analysis on Alternative 4.
- Alternative 5 (See Figures 4 & 5) This alternative was not included as part of this analysis.
 For the two alignment configuration options proposed for this alternative, the first Beale Street
 configuration was determined to be infeasible from a constructability standpoint. For the
 second Beale Street configuration, based on the capacity results for Alternative 2 and the
 inability of an interlocking design that presents a single switch access to the platforms to
 support the lower train service volumes applied in the Alternative 2 analysis, it was concluded
 that an operations review was unnecessary.
- Alternative 6 (See Figure 6) The alignment configuration concept developed for the Alternative 6, two terminal option provides for sufficient parallel train movements to minimize conflicts between arriving and departing trains. The number of platform tracks or "edges" provided in the combination of both terminals (10 for HST and 7 for Caltrain) is sufficient to accommodate the assumed scheduled turnaround times for the HST and Caltrain as defined in this report within acceptable parameters of the operating assumptions.

The schedules used in this analysis for both the HST and Caltrain are not yet fully developed to operate in conjunction with each other in a fully integrated "shared use", "joint" operating plan. Merge points at the hypothetical Bayshore alignment interchange and the deadhead movements to and from the hypothetical Bayshore storage and maintenance facility and the Terminals are still under study. In addition, these concept level draft schedules do not currently include the running time differential for Caltrain trains that do not stop at Bayshore or 22nd Street on the alignment segment to the TTC or Beale Street. These issues are begin carried forward for further study and will be addressed with further refinement of the



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schedules in the next steps of the operational analysis that will include the entire rail corridor between San Francisco and San Jose.

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Further details associated with each concept, the analysis and results are presented in this report.



2.0 INTRODUCTION

An examination of the design configurations for the proposed downtown San Francisco Terminal alternatives for the California High Speed Train Project (HST) was performed as part of an overall alternatives analysis to describe the feasibility of the various options to provide the operational capacity required to support the forecast HST service. The terminal alternatives studied were as follows:

- Alternative 1 (Alternatives Analysis Subsection 0b) Transbay Transit Center (TTC) using the California High Speed Rail Authority (Authority) Phase 1 Service Schedule. See Figure 1.
- Alternative 2 (Alternatives Analysis Subsection 0c) Fourth and King Terminal using the conceptual HST Draft Full Build Service Schedule. See Figure 2.
- Alternative 3 (Alternatives Analysis Subsection 0a) TTC and Fourth and King Terminal
 using the conceptual HST Draft Full Build Service Schedule and the Caltrain Draft 2025
 Schedule (as provided by the JPB). See Figure 3.
- Alternative 4– Fourth and King Terminal "Stacked" Station (If required capacity is not provided under Alternative 3).
- Alternative 5 Beale Street using the conceptual HST Draft Full Build Service Schedule and the Caltrain Draft 2025 Schedule. See Figures 4 and 5.
- Alternative 6 (Alternatives Analysis Subsection 0d) Beale Street and Fourth and King Terminal using the conceptual HST Draft Full Build Service Schedule and the Caltrain Draft 2025 Schedule. See Figure 6.

This report and analysis describes each of the alternative alignment configuration concepts and their ability to support the capacity requirements of the associated service assumptions for the HST. The conclusions of this analysis will be used (in conjunction with other considerations) to describe which alignment configurations present viable solutions for addressing the capacity requirements for a San Francisco Terminal(s). Service levels assumed for this analysis were initially based on those that have been previously defined in the Authority HST Phase 1 Service Plan. For service levels associated with the CHSTP 2035 full build out, a draft conceptual service plan was developed using ridership forecast data for 2035. For scenarios that include joint HST and Caltrain operations, the JPB Draft 2025 Service Plan for Caltrain was used.

The purpose of this study is to describe whether the terminal/station(s) capacity as defined in each of the alignment concept alternatives is sufficient to feasibly support the assumed HST and/or Caltrain Service Plans. Terminal capacity in this study is defined as the "network" that includes the total number of platform tracks or "edges" and station "throat" and approach "tracks" needed to feasibly operate the assumed HST and/or Caltrain Service Plans in to and out of San Francisco.

3.0 OBJECTIVE

The number of alignment configurations, locations and service combinations identified for San Francisco requires that a concept level operational review of each of the San Francisco Terminal alternatives be conducted. This analysis is intended to further the understanding of the station track requirements for the HST service under each alternative in order to identify an operationally feasible configuration. The objective of this analysis is to describe whether the terminal capacity of the proposed alignment configuration alternatives can feasibly support the demand of the proposed HST Service Plans with a peak schedule of up to 10 to 12 trains per hour (TPH) in each direction for all alternatives, and up to 10 TPH for Caltrain in those alternatives that propose joint terminal operations.



II. AUTHORITY

4.0 SIMULATION MODEL

The Berkeley Simulation Software Rail Traffic Controller (RTC) simulation software (the Model) was used to simulate operations for trains arriving and departing the San Francisco Terminals in each alignment configuration. The Model was selected because it accurately simulates passenger operations using the performance characteristics of specific train-set technologies and replicates the horizontal and vertical geometric attributes of the track infrastructure. It provides the range of information and analytical and reporting capabilities required for this analysis and was designed as a flexible tool that can be modified, refined and upgraded to examine a variety of operational and infrastructure alternatives. This dynamic train simulation instrument is also the Model selected as the primary tool for operations/capacity analysis and infrastructure validation for the CHSTP.

5.0 ASSUMPTIONS

There are three principal categories of assumptions that were applied universally to all scenarios simulated for the operational analyses of the San Francisco Terminal alignment alternatives:

- Train Performance Characteristics
- Operational Requirements and Service Design
- Infrastructure / Track Configuration

5.1 Train Performance Characteristics

The train characteristics that are universally applicable to all of the simulation Model alternatives include:

- For HST: characteristics based upon the specifications for the French AGV train-sets. These train-sets are 400 meters long and capable of reaching speeds up to 220 mph.
- For Caltrain: characteristics based upon the specifications for an 8 car Siemens DD EMU capable of reaching speeds of up to 110 mph.

5.2 OPERATIONAL REQUIREMENTS

- HST service operates non-stop Millbrae to San Francisco
- HST maximum operating speed will be 125 miles per hour (mph)
- Caltrain maximum operating speed was assumed to be 110 mph, except where specific "civil" restrictions may apply
- HST and Caltrain non-revenue to revenue and revenue to non-revenue trains are assumed to have a turnaround time of 15 minutes
- Morning "start up" trains originate from a yard facility assumed to be in proximity to Bayshore
- Operations were simulated for the time period from 4:00 A.M. to 8:00 P.M.



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5.3 Service Design Assumptions

The service level assumptions applied in the Model are as follows:

- HST Service Plan: Train schedules as documented in this analysis are based on a
 conceptual draft full build service plan that was developed using the CHSTP ridership
 forecast data for 2035. The conceptual service plan identifies 10 to 12 trains per hour
 operating in to and out of the terminal during the peak periods.
- Caltrain Service Plan: Train schedules for Caltrain are based on the Draft conceptual 2025
 Service Plan developed by Caltrain that assumes a total of 10 trains per hour, 4 to the TTC and 6 to Fourth and King Terminal.

The schedules used in this analysis for both the HST and Caltrain are not yet fully developed to operate in conjunction with each other in a fully integrated operating plan. They do not include the "merge points" at the hypothetical Bayshore Alignment interchange or for the deadhead movements to and from the hypothetical Bayshore storage and maintenance facility and the Terminals. In addition, these schedules do not currently include the running time differential for Caltrain trains that do not stop at Bayshore or 22nd Street when routed to the TTC or Beale Street. These issues are being carried forward for further study and will be addressed with the schedules further refined in the next steps of the operational analysis that will include the entire rail corridor between San Francisco and San Jose.

5.4 INFRASTRUCTURE / MAINLINE TRACK CONFIGURATION

The primary study area for the analysis was composed of the mainline segment of the peninsula corridor between Millbrae and downtown San Francisco. Note that north of Control Point (CP) Army; alignments are configured to conform to the specific terminal concepts developed for each alternative.

6.0 SIMULATION MODEL CASES – OPERATIONAL ANALYSIS

The Model was developed to represent the assumed service attributes and physical characteristics of the portion of the peninsula corridor between Millbrae and San Francisco, focusing on the capacity of the different terminal configuration alternatives. This section describes the terminal configuration concepts and assumptions applied to each specific simulation Model Case, and also summarizes the results of each scenario as follows:

Model Case 1 – Alternative 1: Transbay Transit Center Only (See Figure 1)

The alignment configuration assumed for the Transbay Transit Center (TTC) followed the design developed for the Locally Preferred Alternative (LPA) and presented in the Project Specific Environmental Impact Report / Environmental Impact Statement (EIR/EIS). This includes:

- Total of six platform tracks; this alternative assumes all six tracks for HST.
- Three approach interlocking "throat" tracks to provide universal access to all station platform tracks.
- Two track mainline connection provided for the Caltrain mainline at Control Point (CP) Common.
 - Universal crossovers provided at CP Common.



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Model Case 2 - Alternative 2: Fourth and King Terminal Only (See Figure 2)

- Total of eight platform tracks for the HST service at Fourth and King Terminal
- Beginning at CP Common, four approach interlocking "throat" tracks to provide access to all station platform tracks
- Two track mainline for the HST from Millbrae to CP Common
- Hypothetical HST layover and storage facility at Bayshore
 - Inbound yard lead from Bayshore connects to mainline at CP Common; outbound lead connects to mainline near CP Army.

Model Case 3 – Alternative 3: TTC and Fourth and King Terminals (See Figure 3)

The conceptual alignment for Alternative 3 assumes:

- Four tracks total between Millbrae and Bayshore.
 - Two tracks predominantly for Caltrain (during peak periods)
 - Two tracks predominantly for the HST (during peak periods)
- North and South of Bayshore,
 - Grade separated crossovers at Bayshore allow for universal access between the four mainline tracks and the Bayshore maintenance facility.
- Stops are provided to Bayshore and 22nd Street stations for Caltrain only.
- Four mainline tracks between Bayshore and CP Common.
 - Two tracks for "shared use" between the HST and Caltrain to the TTC
 - Two tracks for "shared use" between the HST and Caltrain to the Fourth and King Terminal
- Two yard lead tracks are necessary from the hypothetical Bayshore maintenance facility to the mainline.
- Subterranean station at Fourth and Townsend with outside platforms for exclusive use by Caltrain
- Three platforms and six tracks in the TTC
 - Four northern tracks are for the exclusive use of the HST
 - Two southern tracks are for the exclusive use of Caltrain
 - Three approach "shared use" interlocking "throat" tracks to provide universal access to/from all station platform tracks.
- Five platforms and nine tracks total in the Fourth and King Terminal
 - Four northern tracks are for the exclusive use of the HST
 - Five southern tracks are for the exclusive use of Caltrain
 - Three approach interlocking "throat" tracks that provide universal access to all Caltrain platform tracks and HST platform track one. HST platform tracks 2, 3 and 4 are accessed from the western two "throat" tracks only.



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<u>Model Case 4 – Alternative 6: Beale Street and Fourth and King Terminals (See</u> Figure 5)

The conceptual alignment for Alternative 6 assumes:

- Four tracks total between Millbrae and Bayshore.
 - Two tracks predominantly for Caltrain (during peak periods)
 - Two tracks predominantly for the HST (during peak periods)
- North and South of Bayshore:
 - Grade separated crossovers at Bayshore allow for universal access between the four mainline tracks and the Bayshore maintenance facility.
- Stops are provided to Bayshore and 22nd Street stations for Caltrain only.
- Four mainline tracks between Bayshore and CP Common.
 - Two tracks for "shared use" between the HST and Caltrain to the TTC
 - Two tracks for "shared use" between the HST and Caltrain to the Fourth and King Terminal
- Two yard lead tracks are necessary from the hypothetical Bayshore maintenance facility to the mainline.
- Subterranean station at Fourth and Townsend with island platform for exclusive use by Caltrain
- Four platforms and eight tracks total in the Beale Street Terminal
 - Six western tracks are for the exclusive use of the HST
 - Two eastern tracks are for the exclusive use of Caltrain
 - Three approach interlocking "throat" tracks to provide universal access to all station platform tracks.
- Five platforms and nine tracks total in Fourth and King Terminal
 - Four northern tracks are for the exclusive use of the HST
 - Five southern tracks are for the exclusive use of Caltrain
 - Three approach interlocking "throat" tracks that provide universal access to all
 Caltrain platform tracks and the HST platform track one. HST platform tracks 2, 3 and
 4 are accessed from the western two "throat" tracks only.

6.1 Model Case 1 – Alternative 1

Assumptions

The San Francisco Terminal configuration Model Case 1 assumed:

- Service Level Assumptions: As described in Section 5.3 plus:
 - Only the HST operations were simulated using the CHSTP Phase 1 Service Plan.

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 Caltrain operations are assumed to operate to Fourth and King Terminal; no Caltrain operations were simulated in this Case.



TTHORITY

 All revenue to revenue train turns for the HST were scheduled based on the assumption of a 30 minute turnaround time, which is an exception to the minimum scheduled CHSTP system turnaround time assumed to be 40 minutes.

Approach

The San Francisco Terminal Model Case 1 (refer to Appendix A – Figure 1) examined the capacity of the TTC in its ability to accommodate the conceptual HST Phase 1 service plan with six platform tracks and three approach interlocking "throat" tracks to provide universal access to all station platform tracks. Caltrain operations were assumed to be located at the Fourth and King station.

Objective

The purpose of the San Francisco Terminal Model Case 1 was to describe, at a conceptual level of analysis, the feasibility of the assumed terminal configuration of six platform tracks at the TTC to provide sufficient capacity to operate the forecast levels of HST service.

Conclusions

The Alternative 1 San Francisco Terminal alignment configuration as currently presented is unable to meet the needs of the HST operation as assumed in the Phase 1 Service Plan, and consequently the Full Build Service Plan (which has higher service levels). Only during the start-up period in the early morning timeframe, when trains arrive from the storage yard and require a 15 minute turnaround time, is adequate terminal capacity available. For the majority of the service day, when all of the trains are operating in revenue service and performing revenue to revenue "turns", the terminal capacity is constrained to 4 to 5 trains per hour. This is significantly less than the 8 to 9 trains per hour presented in the Phase 1 Service Plan or the 10 to 12 trains per hour assumed in the Full Build Service Plan.

In order to respond effectively to the CHSTP ridership demand forecast, the high speed rail "inter-city" service pattern developed in the Phase 1 Service Plan required scheduling "clusters" of trains operating throughout the day rather than "even" intervals or "headways" typical of conventional, short distance transit systems (such as heavy rail transit and LRT). This results in trains arriving and departing the TTC in groups of two or three trains with time separations ranging from two to four minutes. This service pattern creates an imbalance in the arrivals and departures (i.e. uneven arriving and intervals) within a 60 minute period. Consequently, the elapsed turnaround time for an arriving train to the next departing train (that satisfies the assumed 30 minute scheduled turnaround time) can lead to turn times that are slightly shorter or longer than the 30 minute objective. Significant "gaps" begin to occur in the capacity of the TTC using the CHSTP Phase 1 Schedule demand in the 8:00 A.M. to 9:00 A.M. period where the turn-around time dynamics begin to deteriorate below the assumed minimum of 30 minutes. This deterioration increases through-out the remainder of the morning simulation period forcing the reduction of turn-around time to unacceptably shorter durations. In order to achieve even the "exceptional" minimum turn-around time adopted for the TTC analysis there would need to be an additional number of station tracks and platform "edges" provided. The simulation showed that there is insufficient capacity during the morning peak period at the TTC indicating that this alternative is not feasible and rendered the remaining step (testing the Full Buildout service plan) of the Alternative 1 simulation unnecessary. Noting that the TTC did not provide sufficient capacity to support the Phase 1 Schedule it was determined that the Full Build Service Plan, which has more trains (than Phase 1) would similarly prove infeasible.



6.2 Model Case 2 – Alternative 2

Assumptions

The San Francisco Terminal configuration Model Case 2 assumed:

- Service Level Assumptions: As described in Section 5.3 plus:
 - Maximum of 12 HST per hour in each direction based on the conceptual draft Full Build service plan
 - Caltrain operations are assumed to operate to the TTC; no Caltrain operations were simulated in this Case.

Approach

The San Francisco Terminal Model Case 2 (refer to Appendix A – Figure 2) examined the capacity of the Fourth and King Terminal in its ability to accommodate the conceptual HST service plan with eight platform tracks ("edges") and four approach interlocking "throat" tracks to provide universal access to and from all station platform tracks.

Objective

The purpose of the San Francisco Terminal Model Case 2 was to describe, at a conceptual level of analysis, the feasibility of the assumed terminal configuration of eight platform tracks at the Fourth and King Terminal to provide sufficient capacity to operate the forecast levels of HST.

Conclusions

The Alternative 2 San Francisco Terminal alignment configuration as currently presented will not support the operation of the conceptual CHSTP Draft Full Build Service Plan assumed in this analysis. The configuration of the interlocking at CP Common creates a single point of failure for the approach to Fourth and King Terminal, consistently causing multiple delays of between 45 seconds and 8.5 minutes to both inbound and outbound trains. This single point of failure is considered a "fatal flaw" in the Alternative 2 design.

The results of the simulation analysis conducted on the Alternative 2 alignment configuration and the conceptual HST service patterns indicated that the interlocking proposed at CP Common is not sufficient to allow the necessary train movements required to support the maximum of 12 trains per hour assumed during the maximum peak periods of service as identified in the service plan. The alignment configuration proposed for this alternative creates a "single point of failure" for the approach to the terminal located at CP Common in which parallel train movements are severely limited. In practical terms this means that access to platforms five through nine can only be provided by passing through a single switch point at CP Common. With some trains scheduled as close as 3 minutes apart during peak periods for both inbound and outbound trains, providing only a "single point" for access to five platforms does not provide the through-put capacity required to reliably maintain schedule adherence and on-time performance.

The movement of trains within the terminal is further constrained as a result of the revenue to non-revenue and non-revenue to revenue movements to and from the yard. To minimize platform occupancy times, up to 5 trains per hour during the peak are required to deadhead to/from the yard rather than remain at the terminal platform to turn. This occurs when there are more trains arriving in a 60 minute period then there are platform tracks to accommodate these arriving trains assuming a standard 40 minute turnaround time. To further help in addressing this capacity issue, exceptions were made in some cases by "scheduling" turnaround times less than 40 minutes in order to minimize the number of trains traveling to and from the yard. However turnaround times of less than 36



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minutes were not assumed. Throughout the course of the simulation, 10 train sets were scheduled with 36 to 39 minute turnaround times.

6.3 Model Case 3 – Alternative 3

Assumptions

The San Francisco Terminal configuration Model Case 3 assumed:

- Service Level Assumptions: As described in Section 5.3 plus:
 - Maximum of 12 HST per hour in each direction based on a conceptual draft Full Build service plan
 - Maximum of 10 Caltrain trains per hour in each direction based on the Draft Caltrain 2025 Service Plan, 4 trains to the TTC and 6 to Fourth and King.

Approach

The San Francisco Terminal Model Case 3 (refer to Appendix A – Figure 3) examined the capacity of a joint San Francisco Terminal between the Fourth and King Station and the TTC and their combined ability to support the conceptual HST and Caltrain draft service plans with a total of eight platform tracks for the HST (4 at TTC and 4 at Fourth and King) and a total of seven platform tracks for Caltrain (2 at TTC and 5 at Fourth and King). The approach interlocking "throat" tracks to the TTC provide universal access to and from all station platform tracks. For Fourth and King Terminal, the approach interlocking "throat" tracks provide universal access to all Caltrain platform tracks and HST platform track one. HST platform tracks 2, 3 and 4 are accessed from the western two "throat" tracks only.

Objective

The purpose of the San Francisco Terminal Model Case 3 was to describe, at a conceptual level of analysis, the feasibility of the assumed terminal configuration, consisting of a total of eight platform tracks for the HST and a total of seven platform tracks for Caltrain between the TTC and the Fourth and King Terminal, to provide sufficient capacity to operate the forecast levels for HST and Caltrain trains.

Conclusions

The Alternative 3 San Francisco Terminal alignment configuration as currently presented can feasibly support the operation of the conceptual HST and Caltrain draft service plans as assumed in this analysis. The alignment configurations developed for the two terminals provide sufficient parallel train movement capability to minimize conflicts between arriving and departing trains. The number of platform "edges" provided between both terminals (8 for the CHSTP and 7 for Caltrain) is sufficient to accommodate the assumed turnaround times (including the 30" HST exception for TTC) for the HST and Caltrain as defined in this report with limited exceptions.

At Fourth and King Street Terminal, revenue to revenue train turns for the HST were scheduled based on the assumption of a 40 minute turnaround time. Due to the turnaround time exception previously assumed for the TTC, the HST turnaround times at the TTC used in the analysis were 30 minutes. Turn-around times for Caltrain were assumed to be 20 minutes for standard revenue to revenue service and 15 minutes for revenue to non-revenue trains. The interlocking "throat" in this alternative for Fourth and King allows for multiple parallel train movements in and out of the facility, which is an improvement over Alternative 2 due to the shorter Caltrain platform length requirements. This allows the interlocking to "process" a higher number of trains per hour. When compared to the observations in Alternative 2, where the "fatal flaw" was identified in the interlocking configuration at CP Common and its failure to provide parallel train movement capability causing a "single point of

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CALIFORNIA HIGH SPEED RAIL AUTHORITY

failure", the Alternative 3 CP Common interlocking configuration is more robust. This is because, with the introduction of Caltrain service, two of the 400 meter platforms designated in Alternative 2 for HST service could be shortened in length to accommodate the 8 car Caltrain consists. The platform reductions provided more "space", allowing the interlocking configurations to be improved to thereby increasing through-put at CP Common and mitigating the "single point of failure".

The results of the simulation analysis conducted on the Alternative 3 alignment configuration indicated that while there are some exceptions to the assumed minimum turnaround times for the HST, (5 trains have turnaround times between 27 and 29 minutes at the TTC and 7 trains have turnaround times between 34 and 39 minutes at Fourth and King) all trains for both services were able to be run in accordance with their schedules.

It should be noted here that the schedules used in this analysis for both the HST and Caltrain are conceptual and not, as yet designed to operate in conjunction with each other in a fully integrated operating plan. They do not include merge points at the hypothetical Bayshore Alignment interchange and they do not account for the running time differential for Caltrain trains that do not stop at Bayshore or 22nd Street when routed to the TTC. These issues will be addressed and the schedules further refined in the next steps of the operational analysis that will include the entire rail corridor between San Francisco and San Jose.

6.4 MODEL CASE 4 – ALTERNATIVE 6

Assumptions

The San Francisco Terminal configuration Model Case 4 assumed:

- Service Level Assumptions: As described in Section 5.3 plus:
 - Maximum of 12 HST per hour in each direction based on the conceptual draft Full Build service plan that was developed using ridership forecast data for 2035
 - Maximum of 10 Caltrain trains per hour in each direction based on the Caltrain Draft 2025 Service Plan, 4 trains to Beale Street and 6 trains to Fourth and King.

Approach

The San Francisco Terminal Model Case 4 (refer to Appendix A – Figure 6) examined the capacity of a joint San Francisco Terminal between the Fourth and King Terminal and Beale Street and their combined ability to support the conceptual HST and Caltrain draft service plans with a total of ten platform tracks for the HST (6 at Beale Street and 4 at Fourth and King) and a total of seven platform tracks for Caltrain (2 at Beale Street and 5 at Fourth and King). The approach interlocking "throat" tracks to the Beale Street Terminal provide universal access to and from all station platform tracks. For Fourth and King Terminal, the approach interlocking "throat" tracks provide universal access to all Caltrain platform tracks and HST platform track one. HST platform tracks 2, 3 and 4 are accessed from the western two "throat" tracks only.

Objective

The purpose of the San Francisco Terminal Model Case 4 was to describe, at a conceptual level of analysis, the feasibility of the assumed terminal configuration, consisting of a total of ten platform tracks for the HST and a total of seven platform tracks for Caltrain between the combined Beale Street and Fourth and King Terminals, to provide sufficient capacity to operate the assumed forecast service levels for the HST and Caltrain trains.

Conclusions



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The Alternative 6 San Francisco Terminal alignment configuration as currently presented can feasibly support the operation of the conceptual HST and Caltrain service plans as assumed in this analysis. The alignment configurations developed for the two terminals provide sufficient parallel train movement capability to minimize conflicts between arriving and departing trains. The total number of platform tracks or "edges" provided in both terminals combined (10 for HST and 7 for Caltrain) is sufficient to accommodate the assumed turnaround times for the HST and Caltrain as defined in this report within acceptable parameters of the operating assumptions.

At both Fourth and King Street Terminal and Beale Street all revenue to revenue train turns for the HST were scheduled based on the assumption of a 40 minute turnaround time. The interlocking "throat" throughput for Fourth and King used the same configuration as in Alternative 3 and allows for multiple parallel train movements in to and out of the facility, which is an improvement over Alternative 2 due to the shorter Caltrain platform length requirements. This allows the interlocking to process a higher number of trains per hour. The three track "throat" to Beale Street provides an interlocking with multiple routing options allowing for parallel train movements to and from multiple platforms, increasing the overall train processing capability of the terminal compared to Alternative 3. This three track throat arrangement is successful in this alternative (as compared to a similar configuration assumed for Alternative 5) because the set of "universal" crossover switches are located closer to the terminal, thus reducing the time that trains would occupy any given arriving or departing routes.

The results of the simulation analysis conducted for the Alternative 6 alignment configuration indicated that while there are some exceptions to the assumed minimum turnaround times for both the HST and Caltrain, all trains for both services were able to be run in accordance with their schedules.

It should be noted here that the schedules used in this analysis for both the HST and Caltrain are conceptual and not, as yet designed to operate in conjunction with each other in a fully integrated operating plan. They do not include the merge points at the hypothetical Bayshore Alignment interchange and they do not account for the running time differential for Caltrain trains that do not stop at Bayshore or 22nd Street when routed to the TTC. These issues will be addressed and the schedules further refined in the next steps of the operational analysis that will include the entire rail corridor between San Francisco and San Jose.

7.0 CONCLUSIONS

Based on the analyses conducted of the four Alternatives selected for simulation modeling, it was determined that Alternatives 3 and 6 are the two alignment configurations that offer a feasible configuration for achieving the necessary capacity and assumed service and operational objectives. Alternatives 1 and 2 did not provide sufficient capacity to feasibly support the conceptual HST service level requirements of up to 12 trains per hour in each direction as assumed in the Full Build Out Draft Conceptual Service Plan.

It should be noted that Alternatives 4 and 5 were "dropped" from consideration prior to conducting the operational simulation, modeling analysis. Alternative 4 was developed exclusively as a "fall back" contingency to Alternative 3 should the alignment configuration simulated proved to be unable to support the proposed service levels of both Caltrain and the HST. With the results of the modeling and analysis confirming the ability of the terminal configuration proposed in Alternative 3 to provide sufficient capacity to support the assumed service levels, there was no longer the necessity for further study of Alternative 4.

For Alternative 5, two conceptual variations for proposed configurations were reviewed. The first option (Beale Street Alt. 5A – Figure 4) depicted a "universal access" interlocking achieved through the use of switching "ladders" that enabled both parallel train movements and multiple routing options for trains. In particular, any track in the terminal could be reached by arriving and departing trains and the "throat" of this interlocking arrangement was located at the immediate entrance of the terminal.

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interlocking arrangement the "throat" was designed to be much farther away from the terminal. It was also significantly smaller and provided access to the terminal via three "branch routes". The "branch routes" provided some ability for parallel routing to 4 tracks located in the middle of the station but manifested "single point of failure" access to the 6 outside station tracks. This configuration would "force" arriving and departing trains located on the outside of the terminal to be routed in a manner that precluded other trains from moving until they were entirely clear of the interlocking throat, a throat which in this alternative, is farther away from the station. Additionally, trains would be forced to "queue" up on the approach tracks waiting for conflicting routes and/or preceding trains to clear coming into or moving out of the terminal. The results of the analysis indicated that this terminal configuration does not support the assumed HST or Caltrain train operations previously described for this alternative.

The Beale Street Alt.5A configuration as depicted was determined to be infeasible for constructability

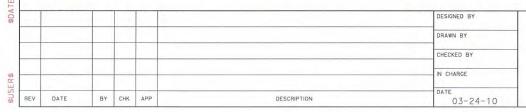
The second option (Beale Street Alt. 5B - Figure 5) described the same 10 track terminal

arrangement as Alt.5A, but described a completely different interlocking arrangement. In this

The Beale Street Alt.5A configuration as depicted was determined to be infeasible for constructability reasons. Based on the previous analysis describing the inability of "single point of failure" interlocking designs to support the lower train service volumes used in Alternative 2, it was neither prudent nor practicable to conduct an operations simulation using the configuration design proposed in Beale Street Alt. 5B.



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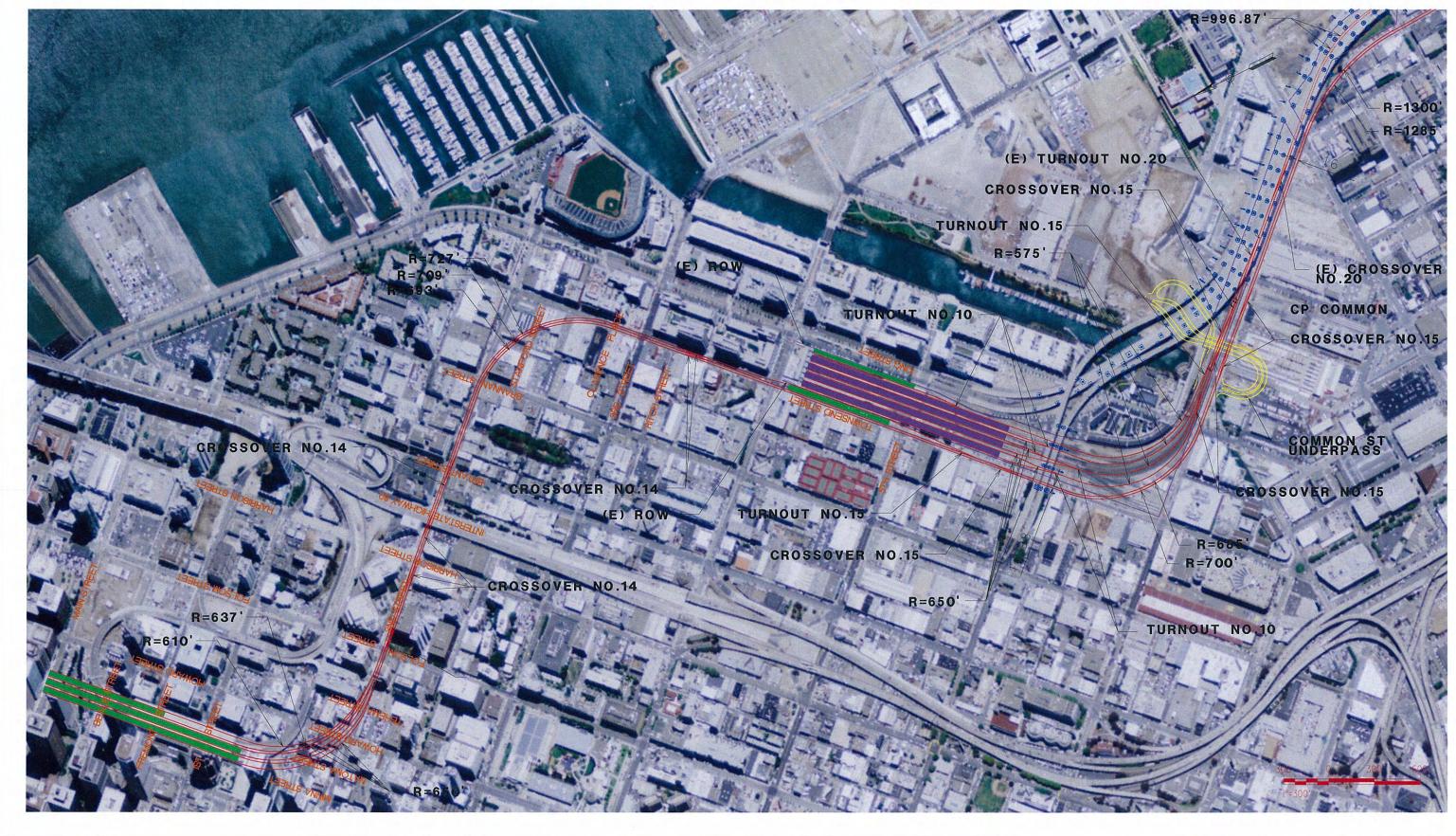




CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN FRANCISCO

ALTERNATIVE 1: TRANSBAY TRANSIT CENTER (HST) ONLY AA ALTERNATIVE OB FIGURE 1

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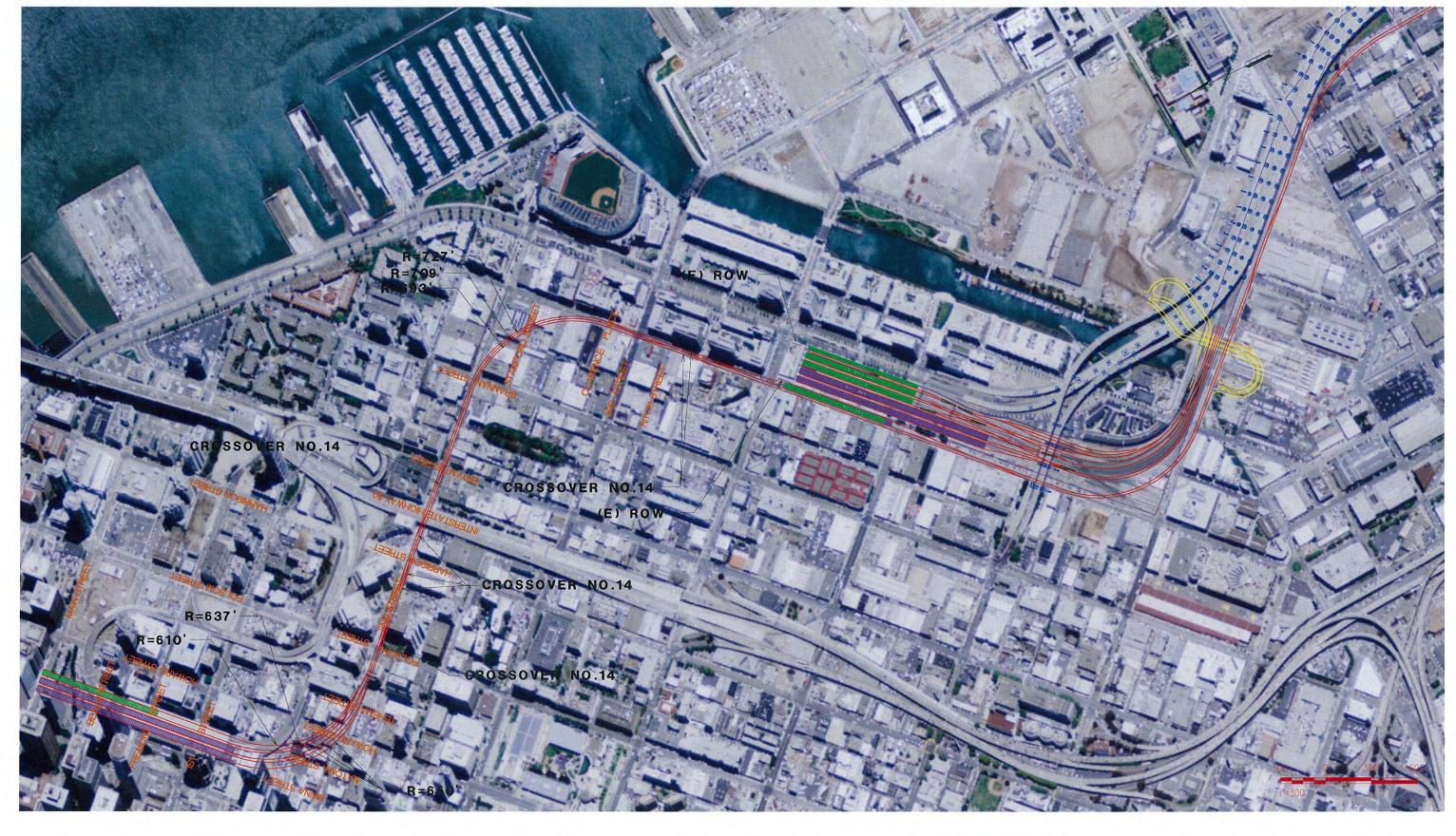
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CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN FRANCISCO

ALTERNATIVE 2: 4TH STREET AND KING STREET (HST ONLY) AA ALTERNATIVE OC FIGURE 2

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CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN FRANCISCO

ALTERNATIVE 3: TRANSBAY TRANSIT CENTER AA ALTERNATIVE OA FIGURE 3

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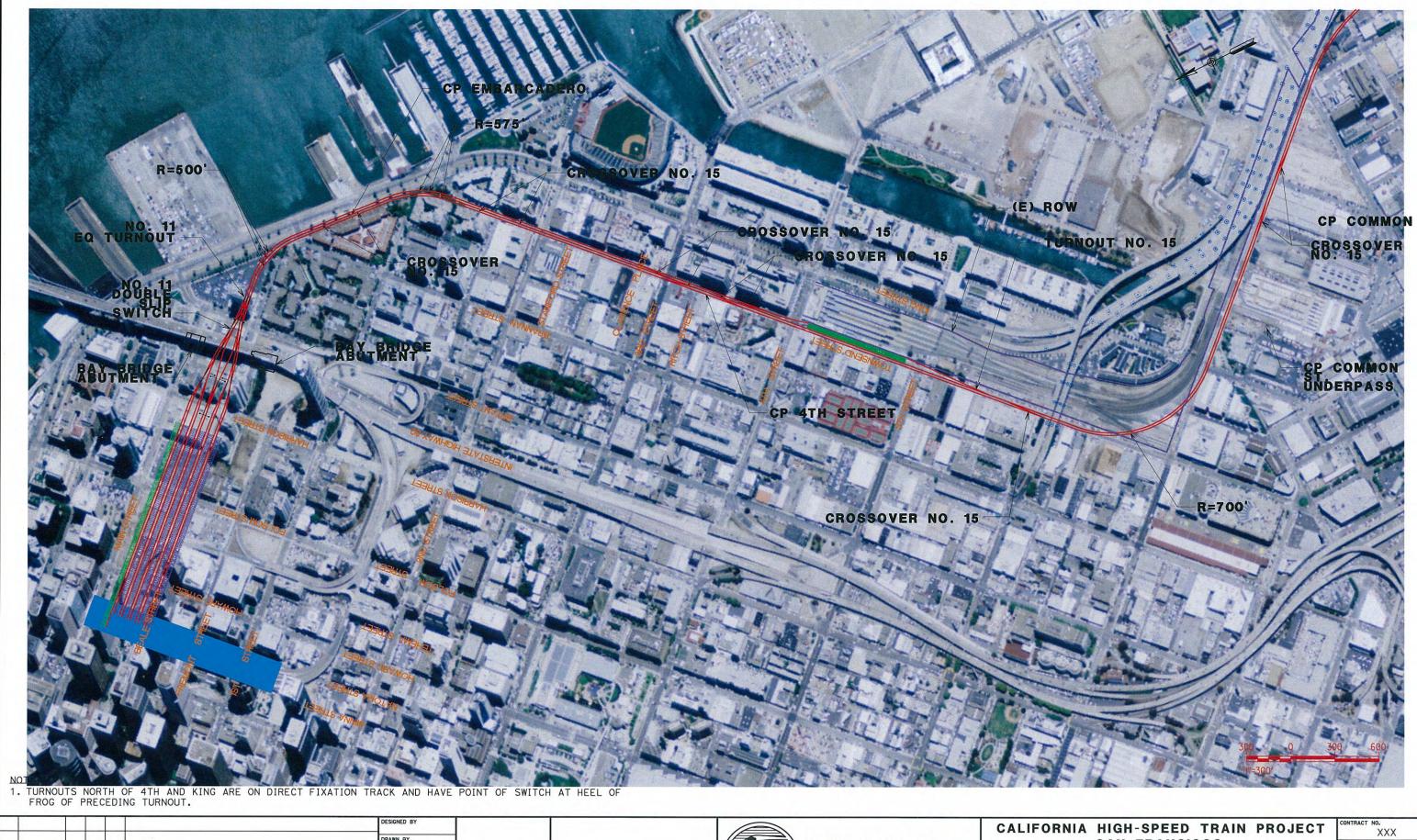
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CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN FRANCISCO

ALTERNATIVE 5A: BEALE STREET (ALL HST AND CALTRAIN) AA ALTERNATIVE OD FIGURE 4

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ALTERNATIVE 5B: BEALE STREET (ALL HST AND CALTRAIN) AA ALTERNATIVE OD FIGURE 5

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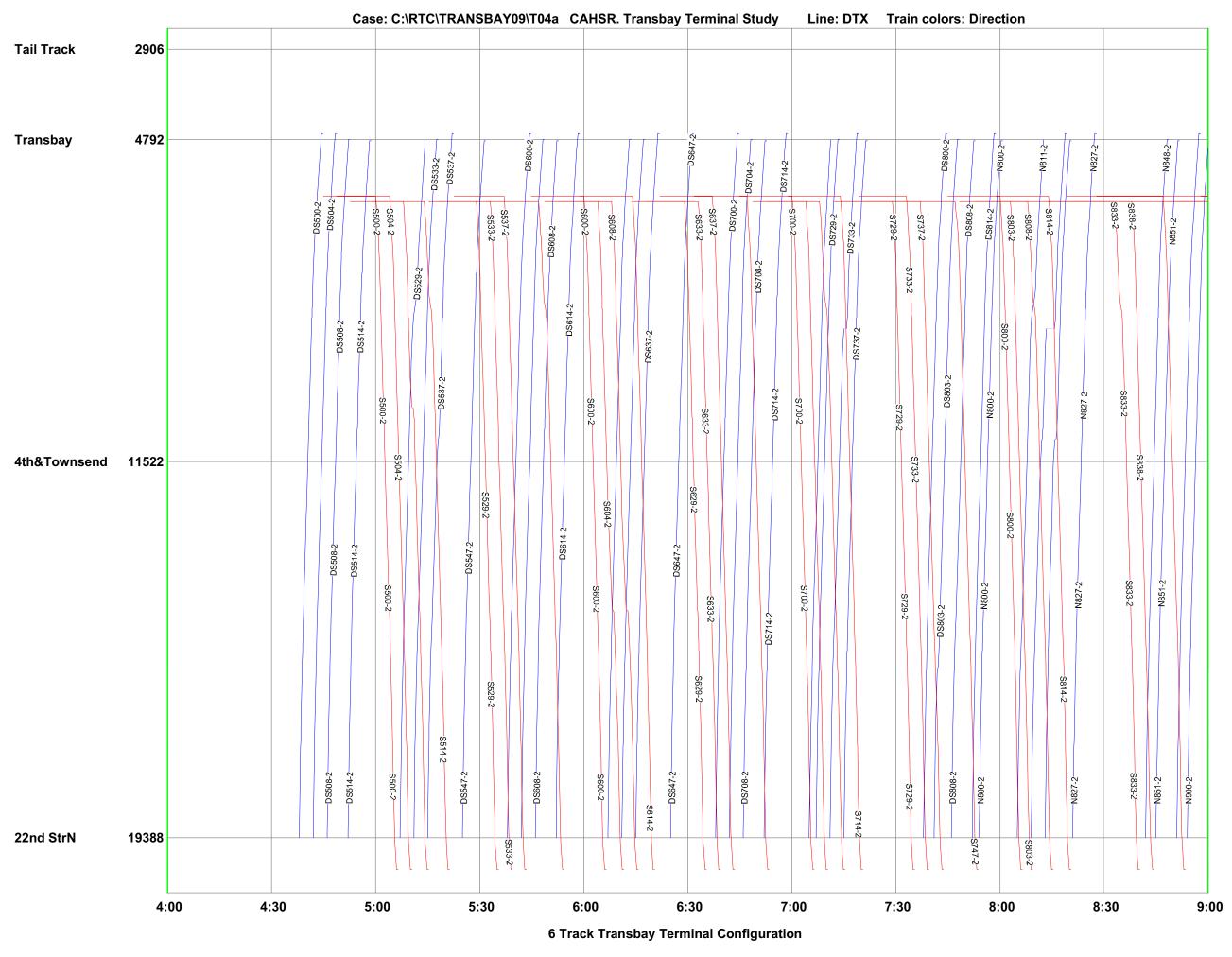


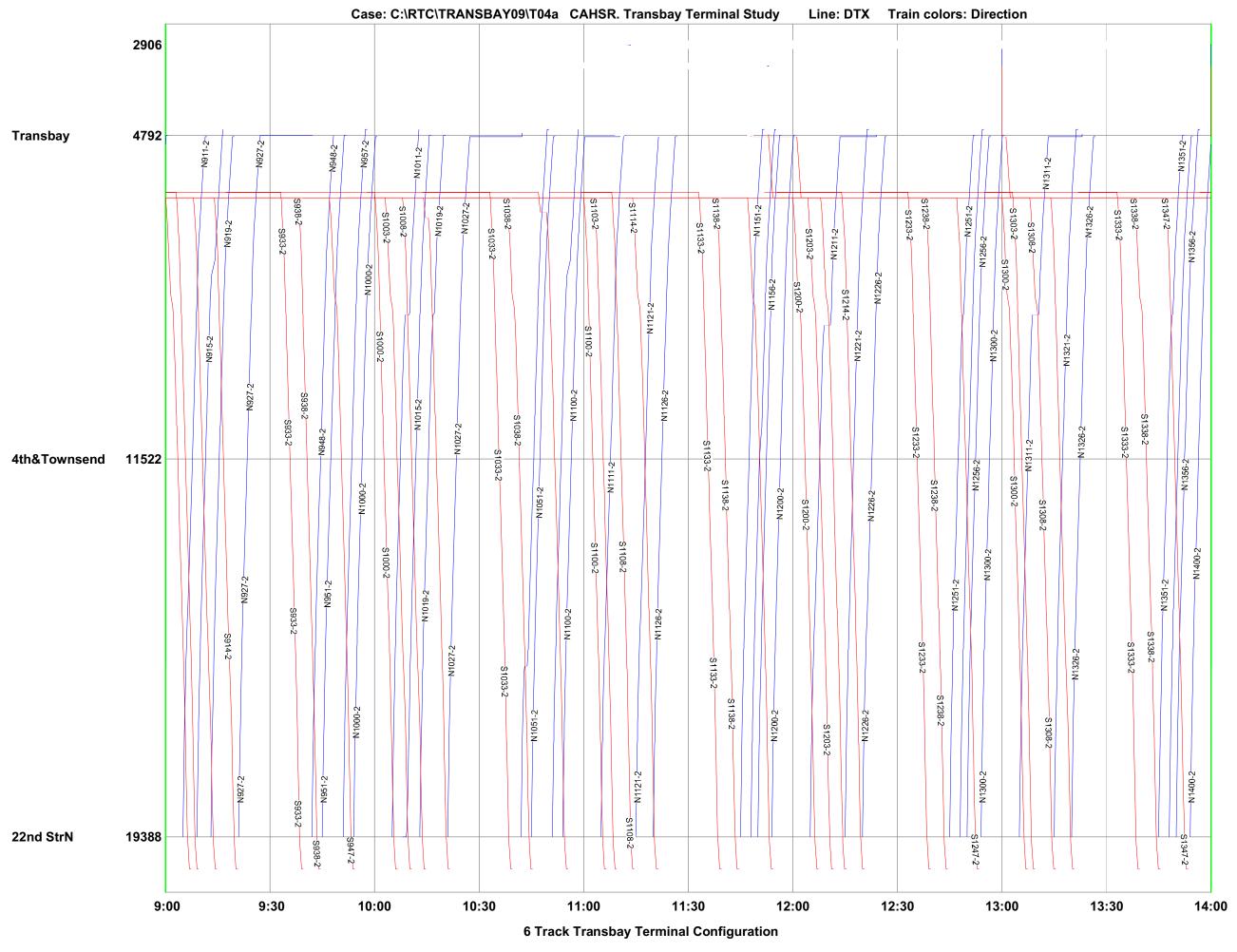
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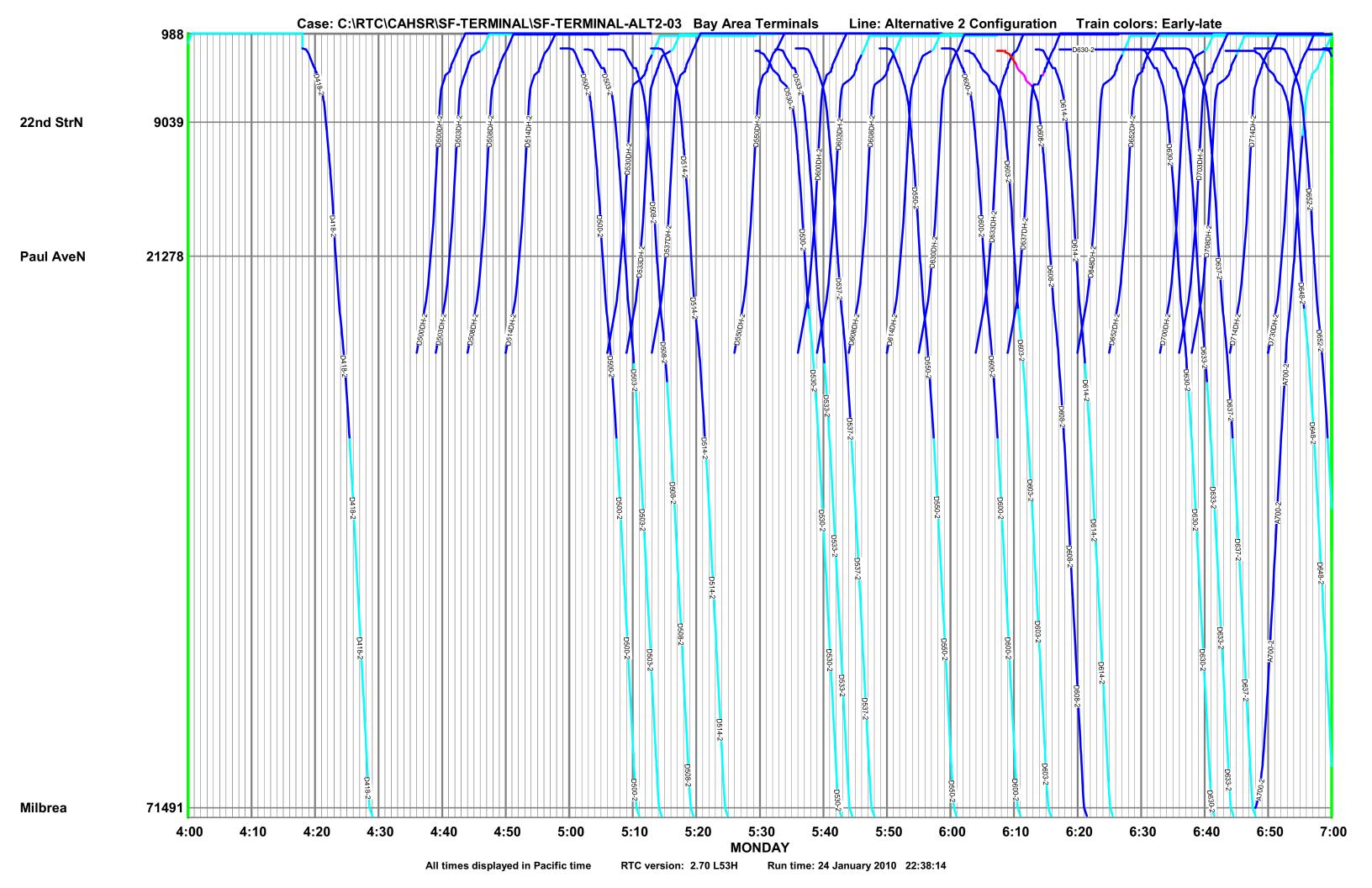
ALTERNATIVE 6: BEALE STREET AND 4TH STREET AND KING STREET AA ALTERNATIVE OD FIGURE 6

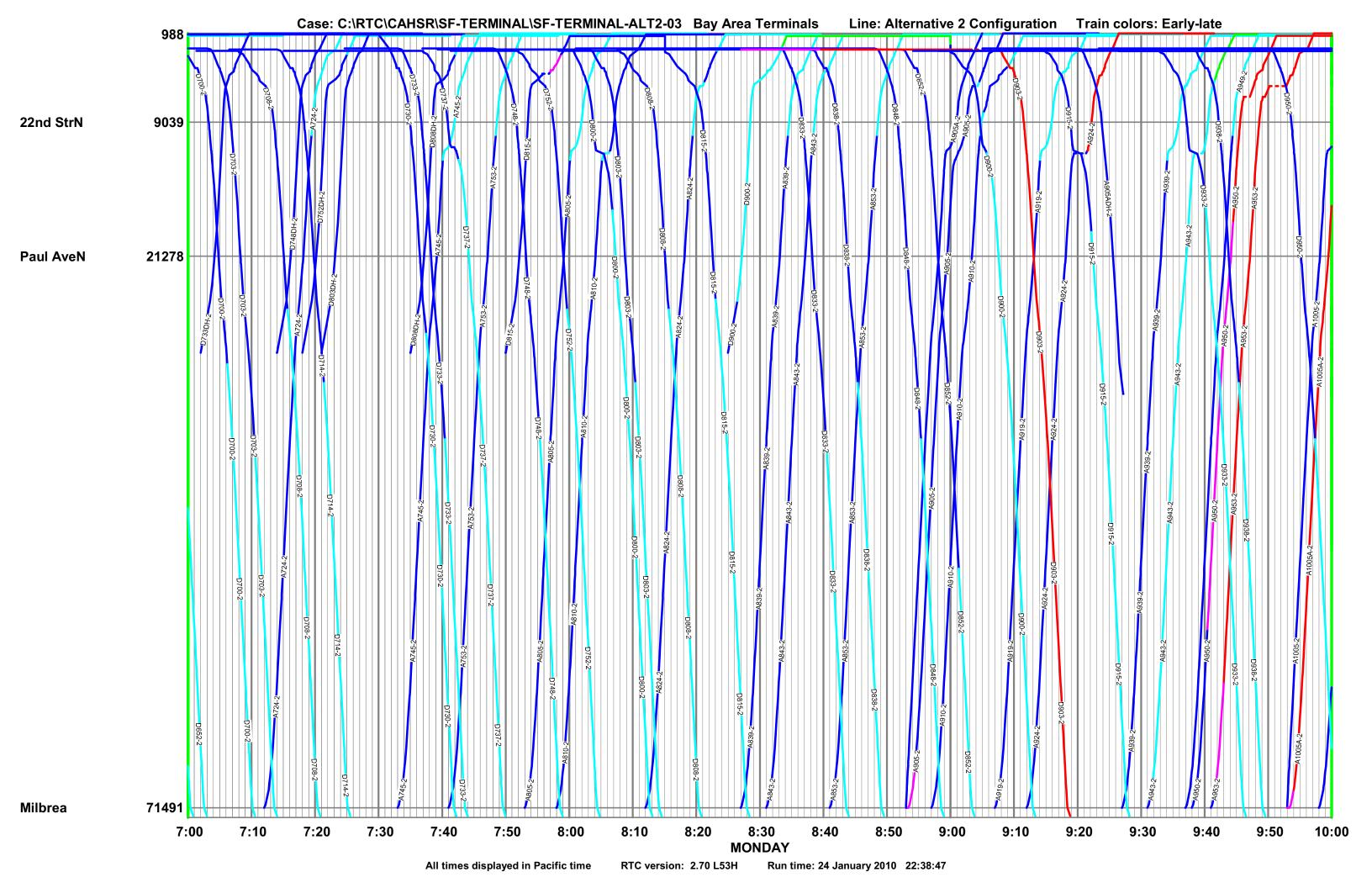
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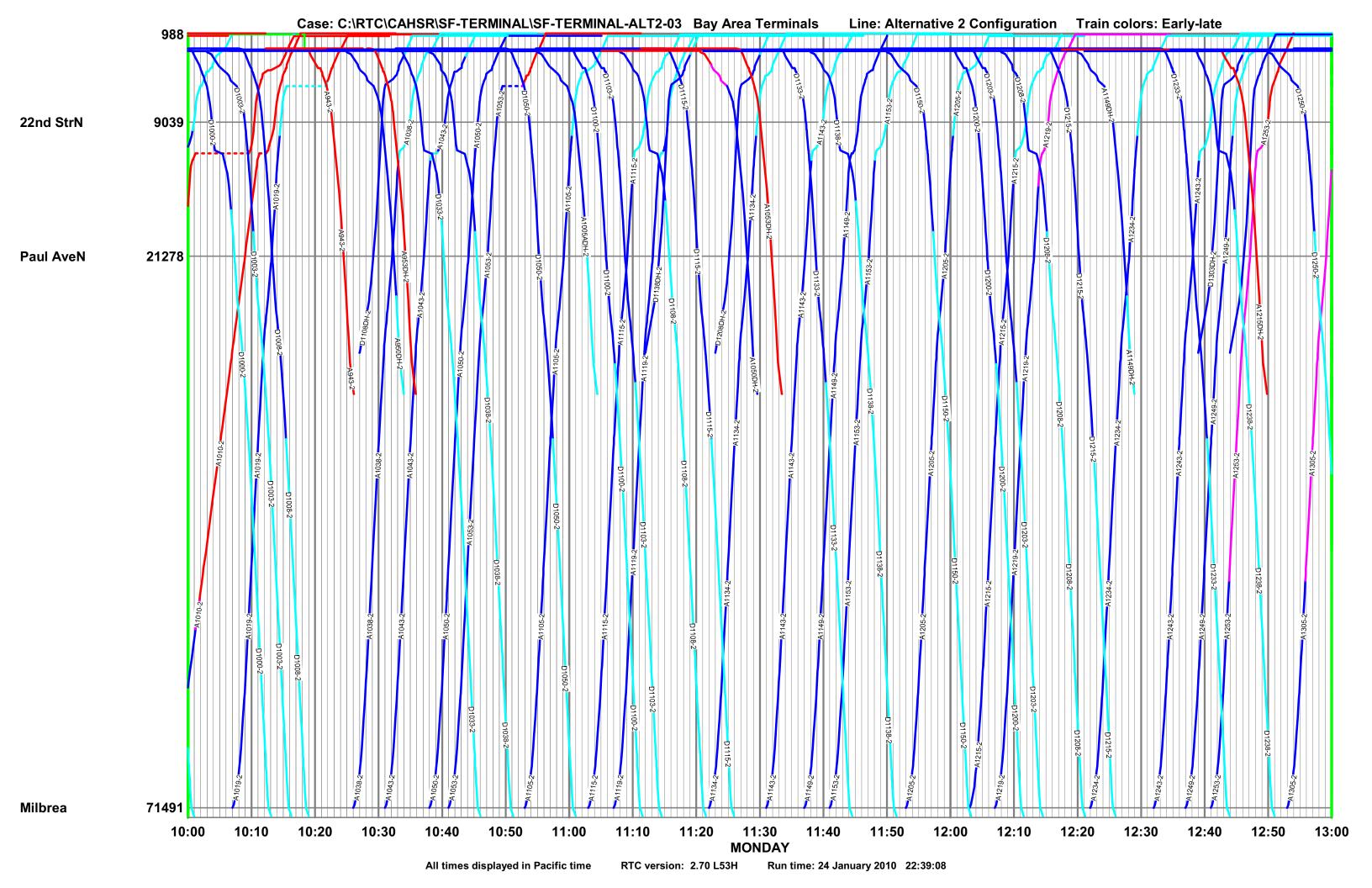


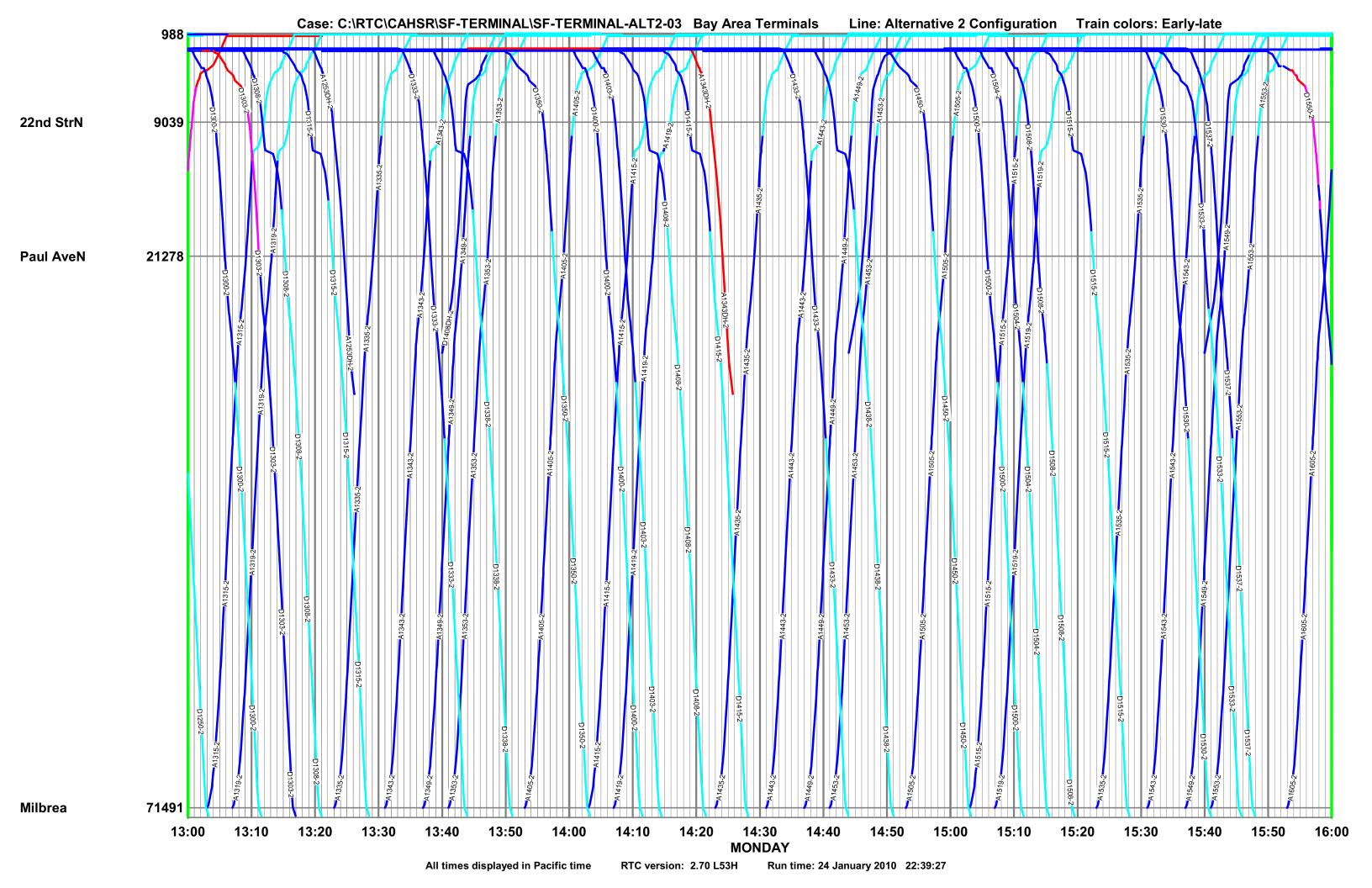


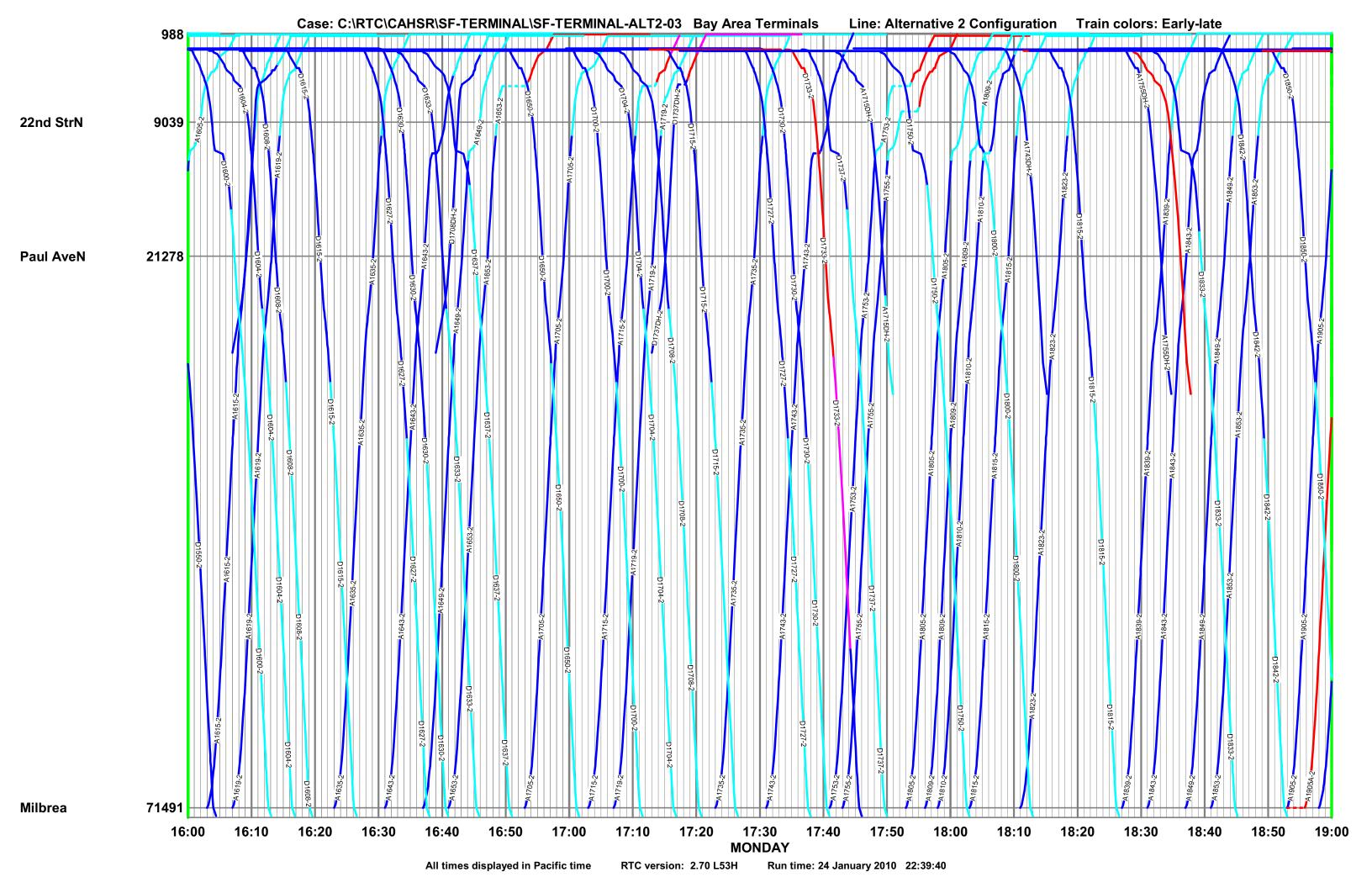


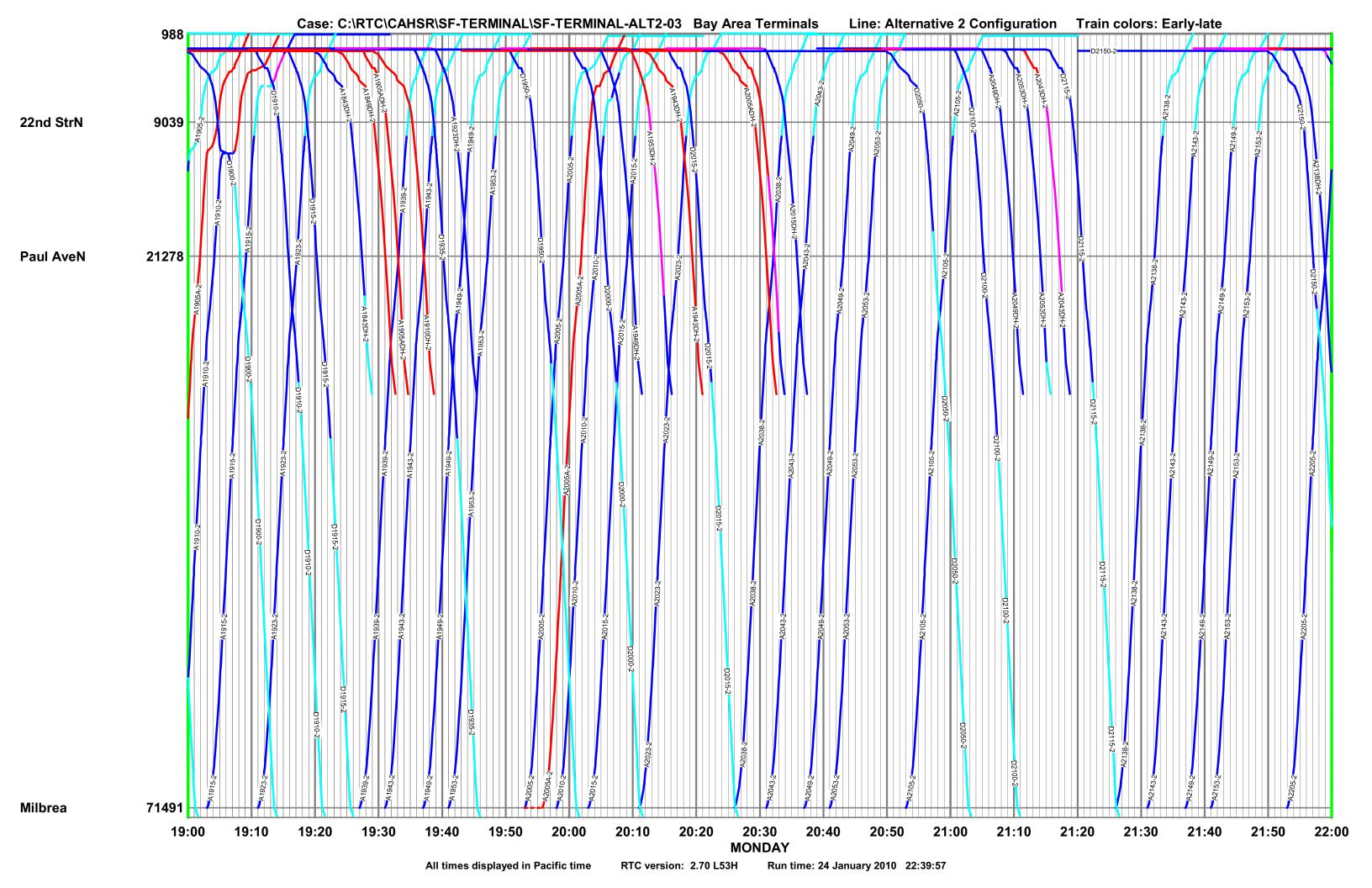


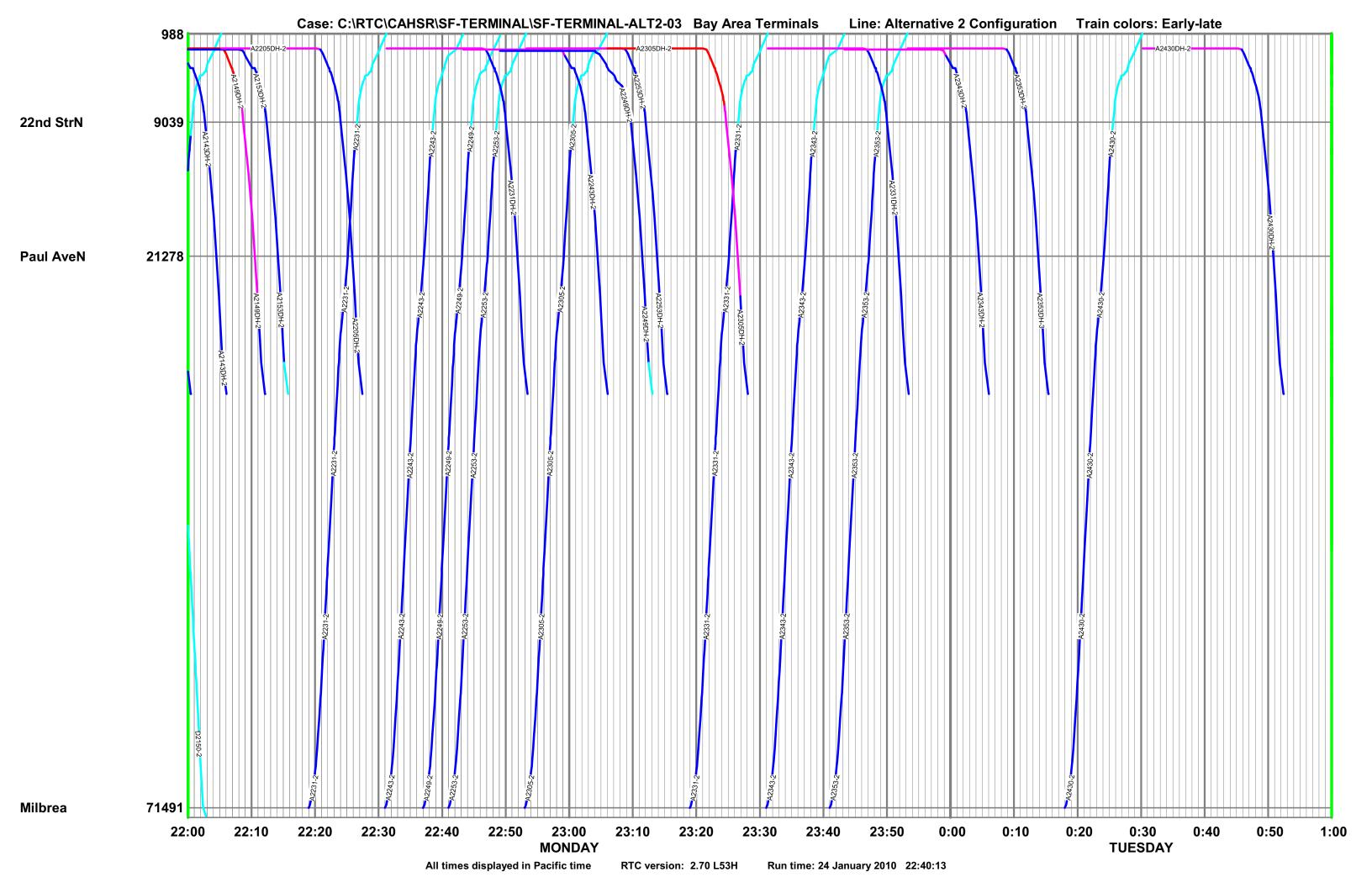


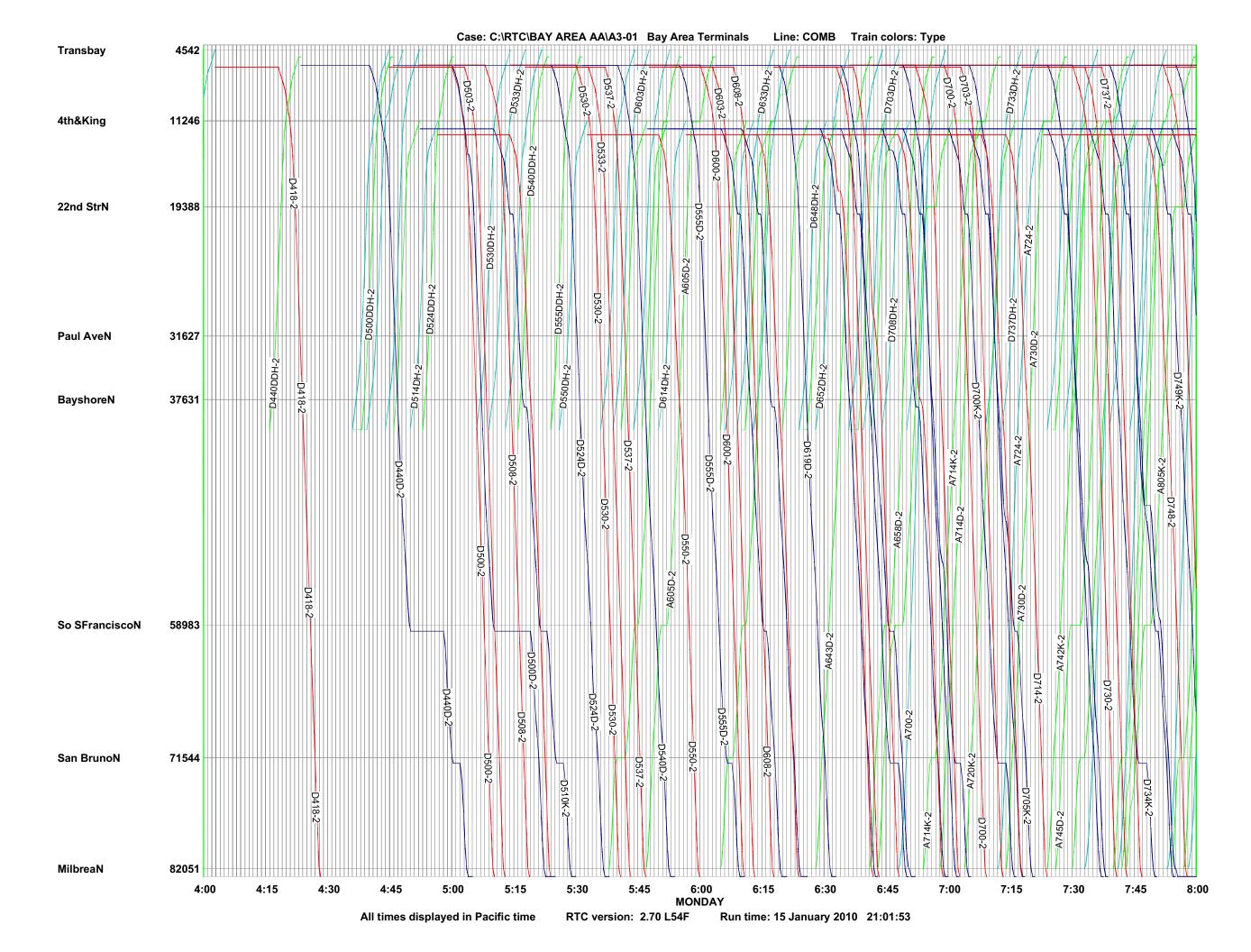


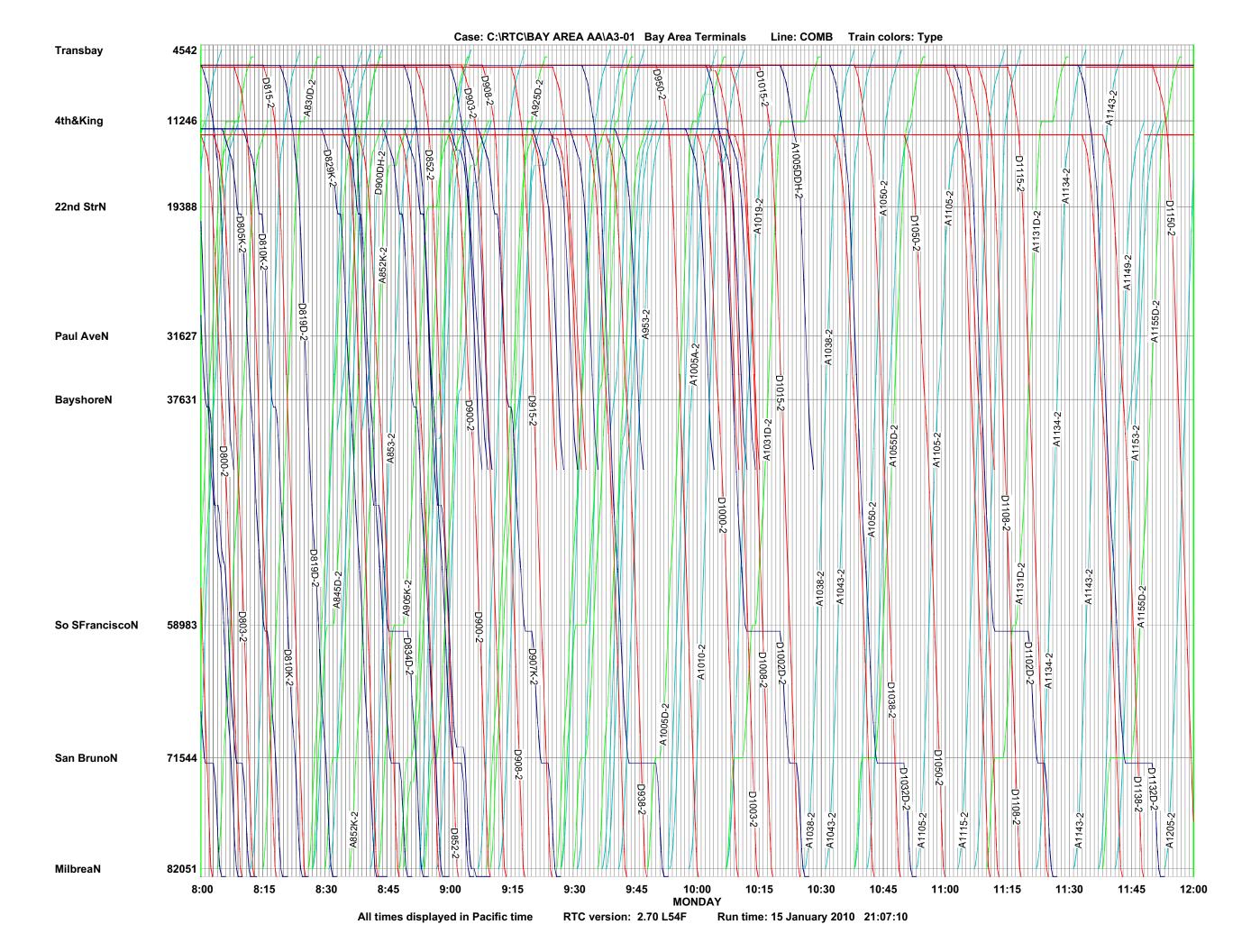


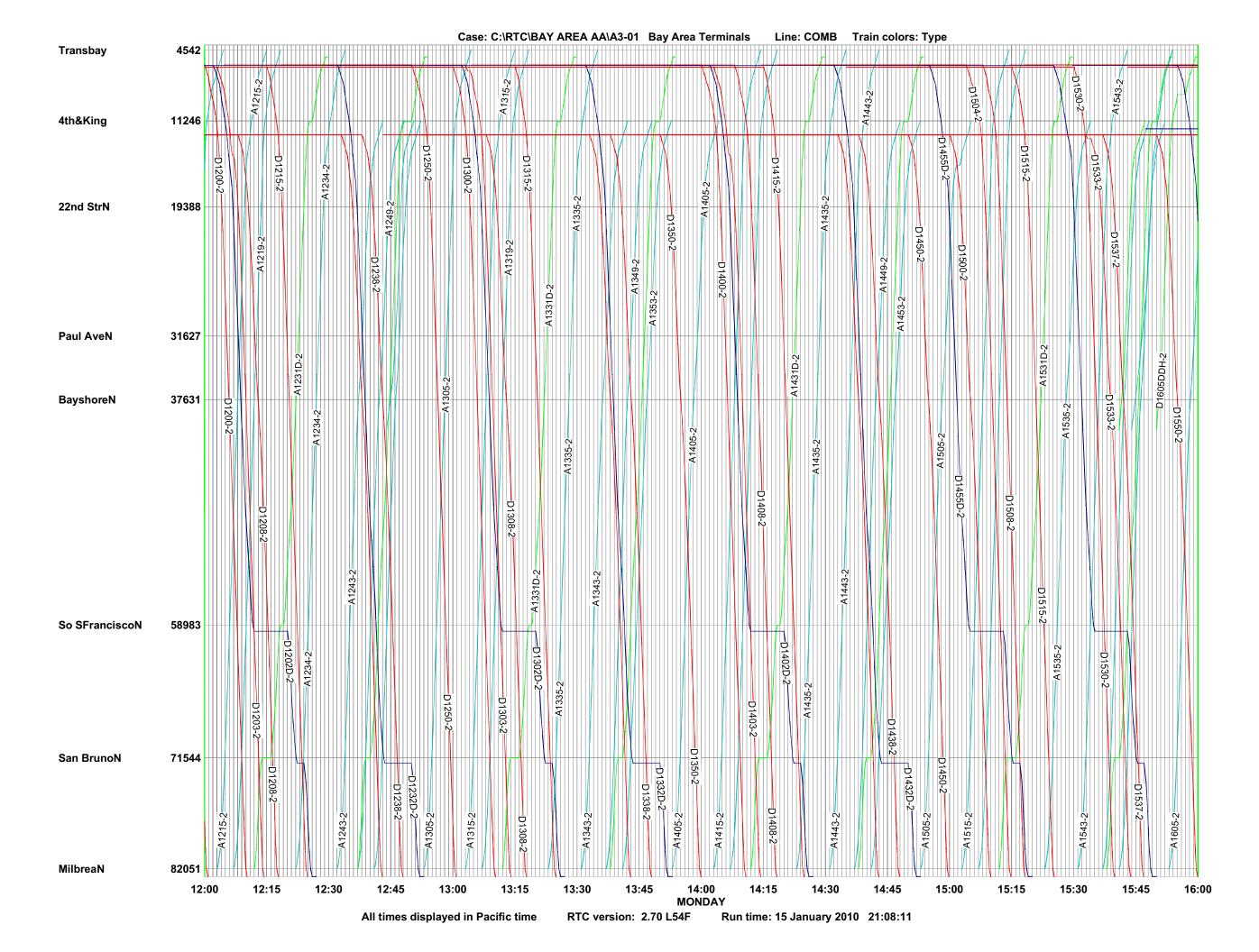


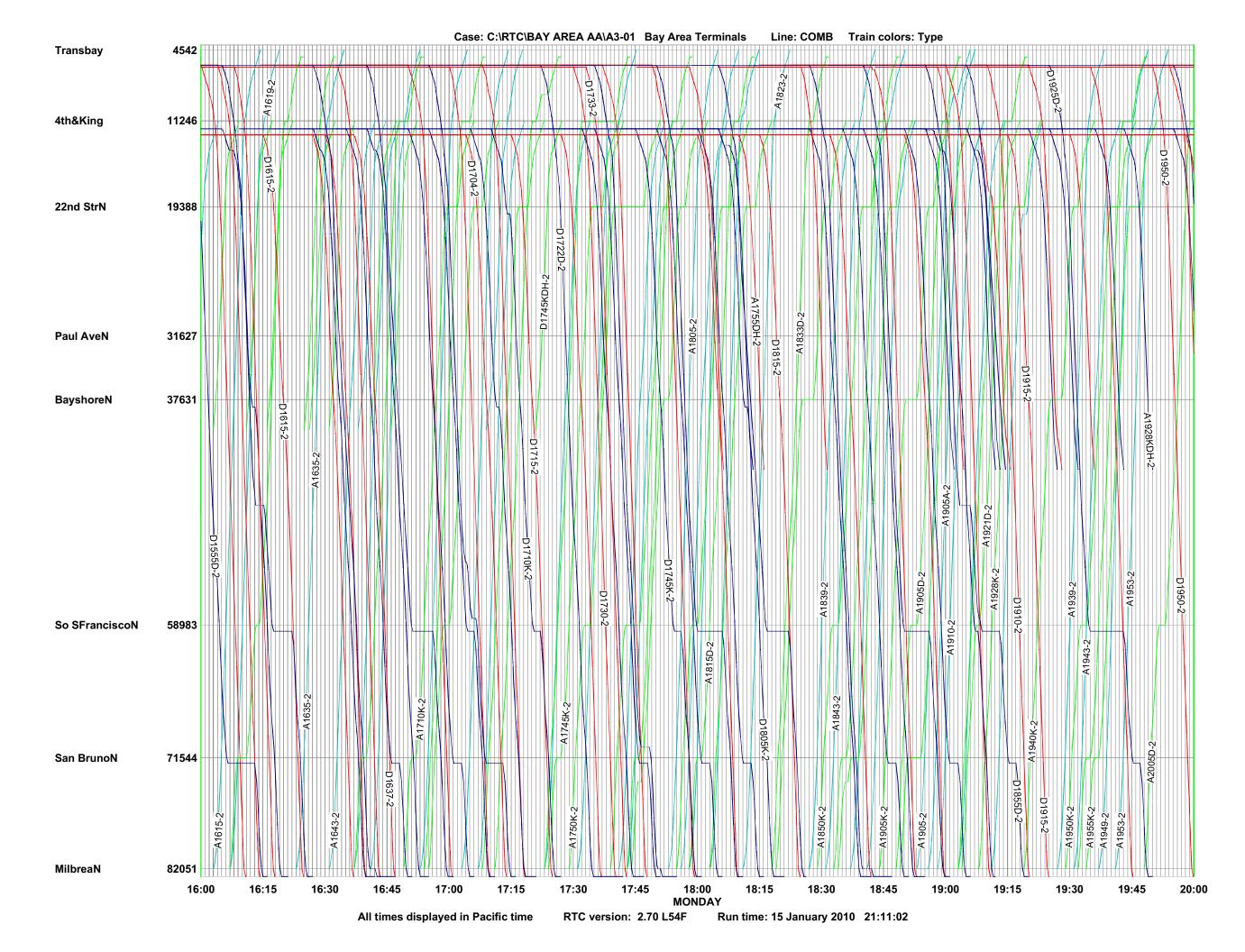


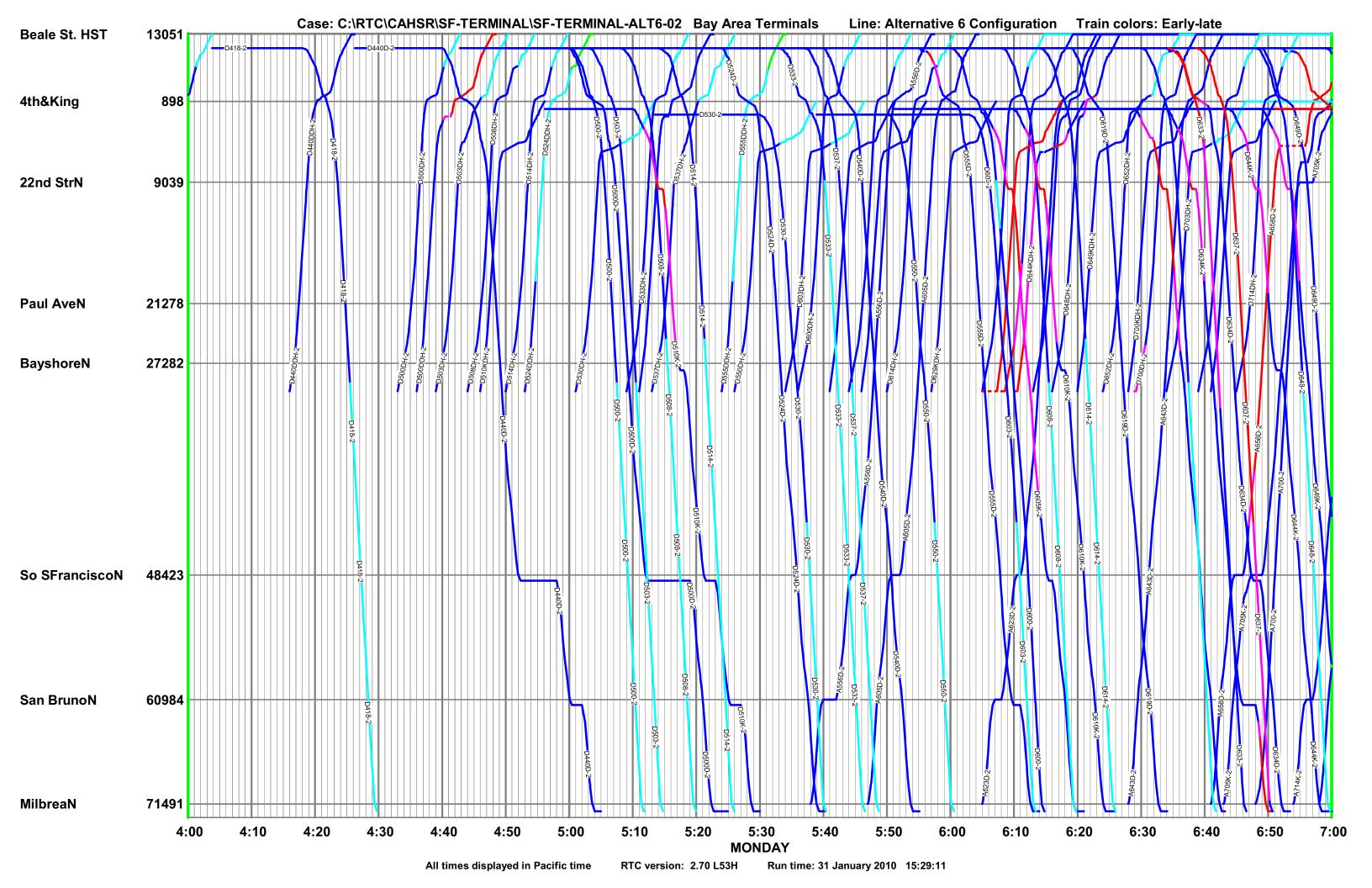


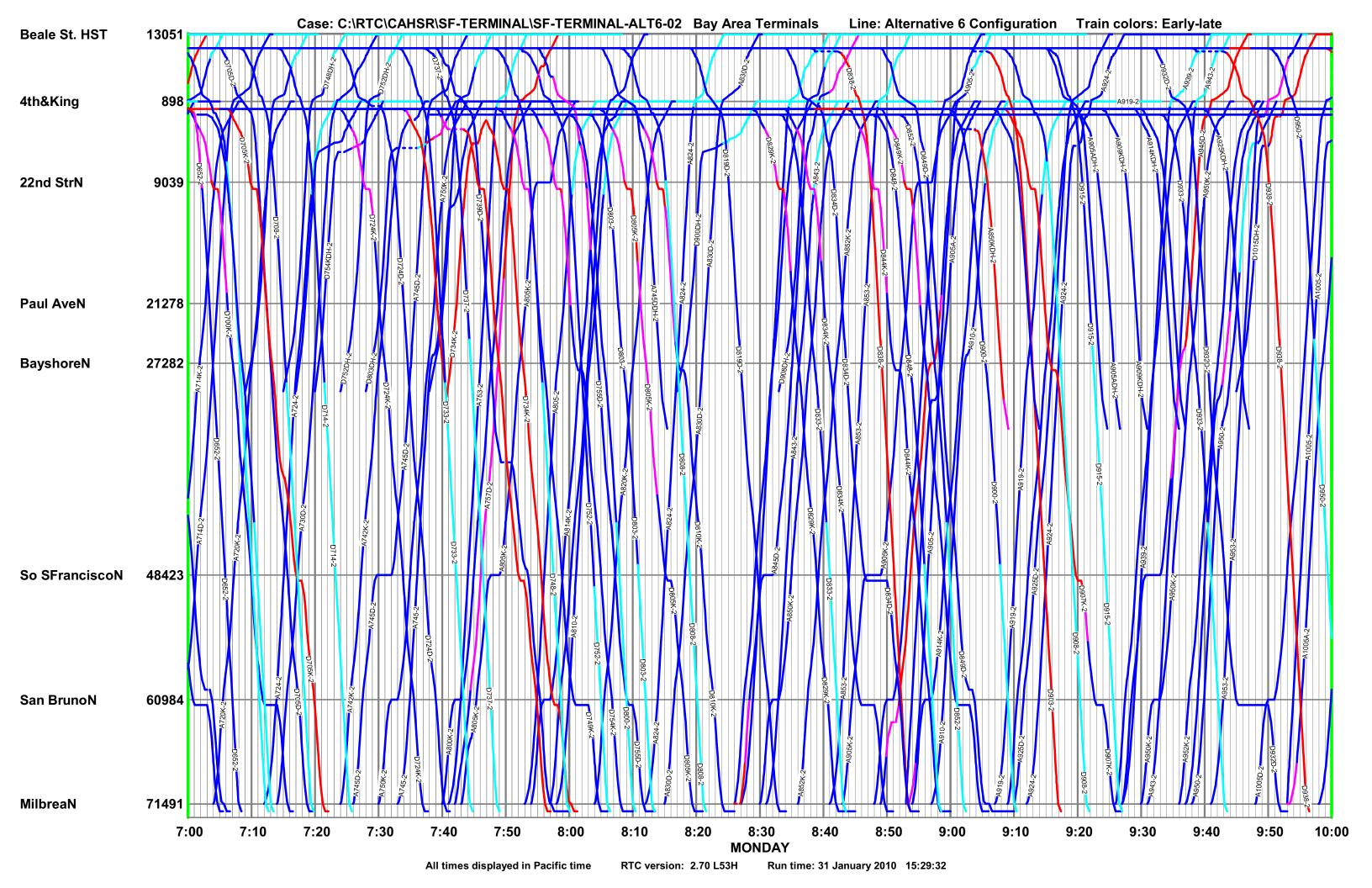


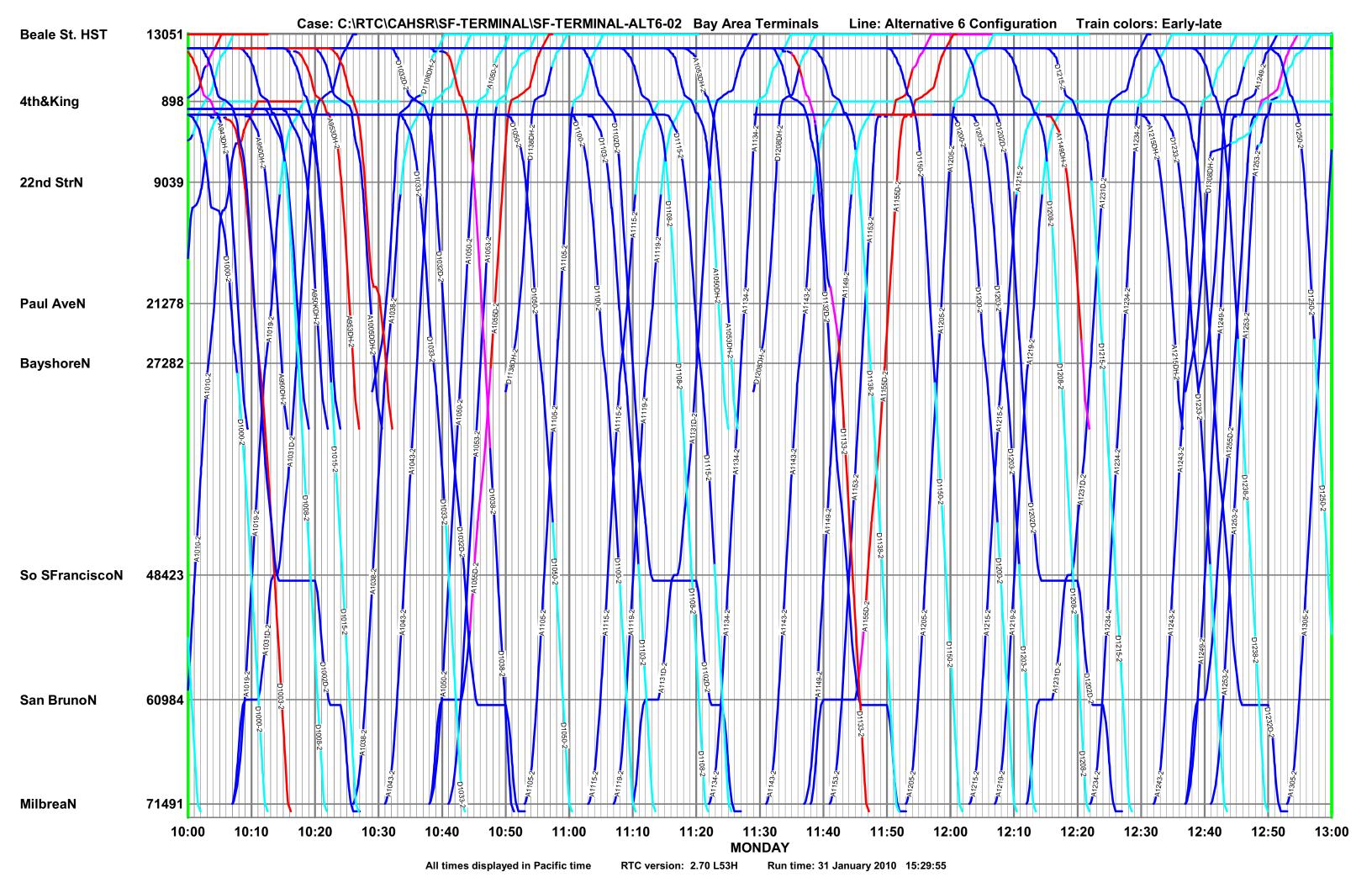


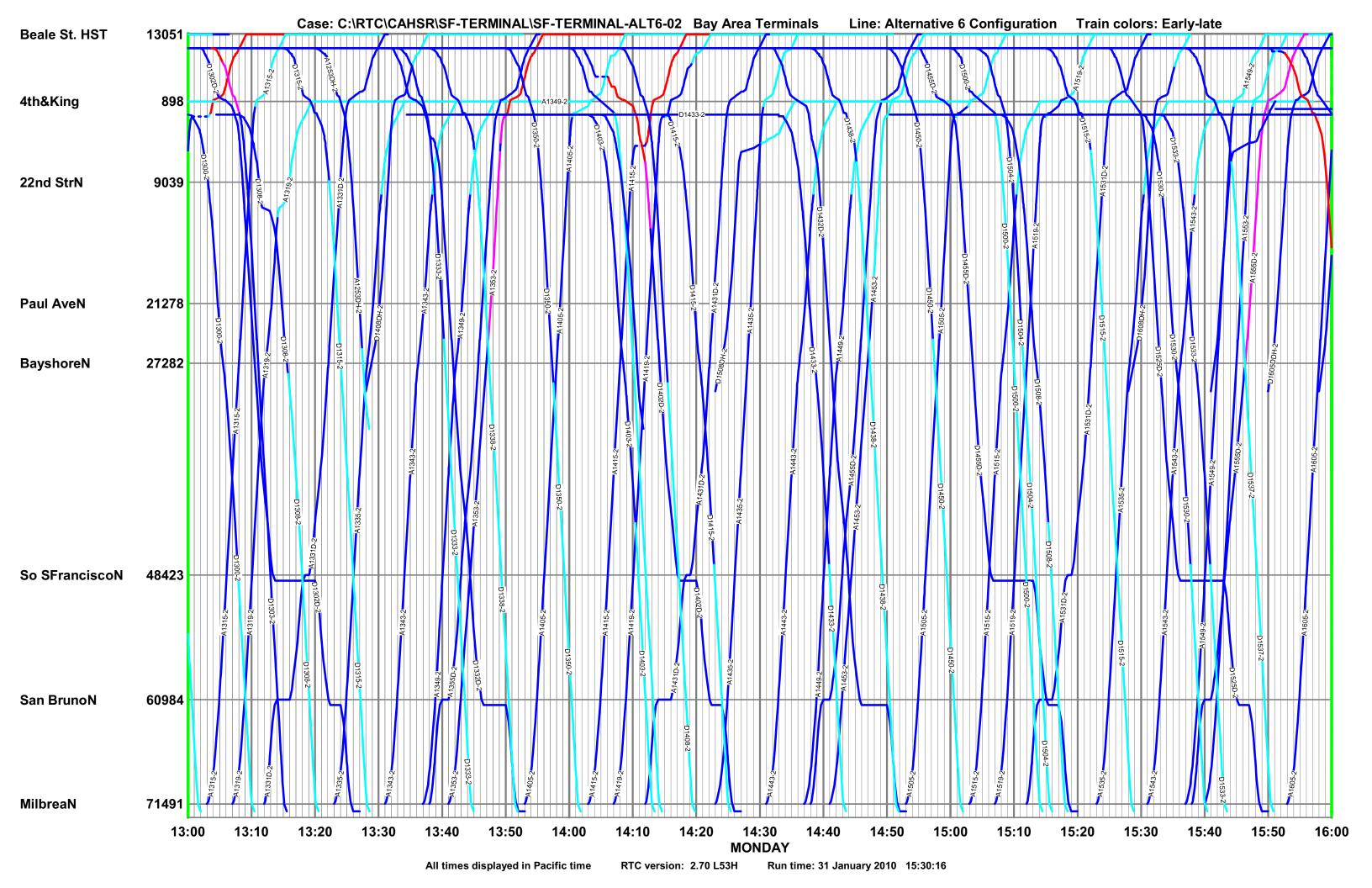


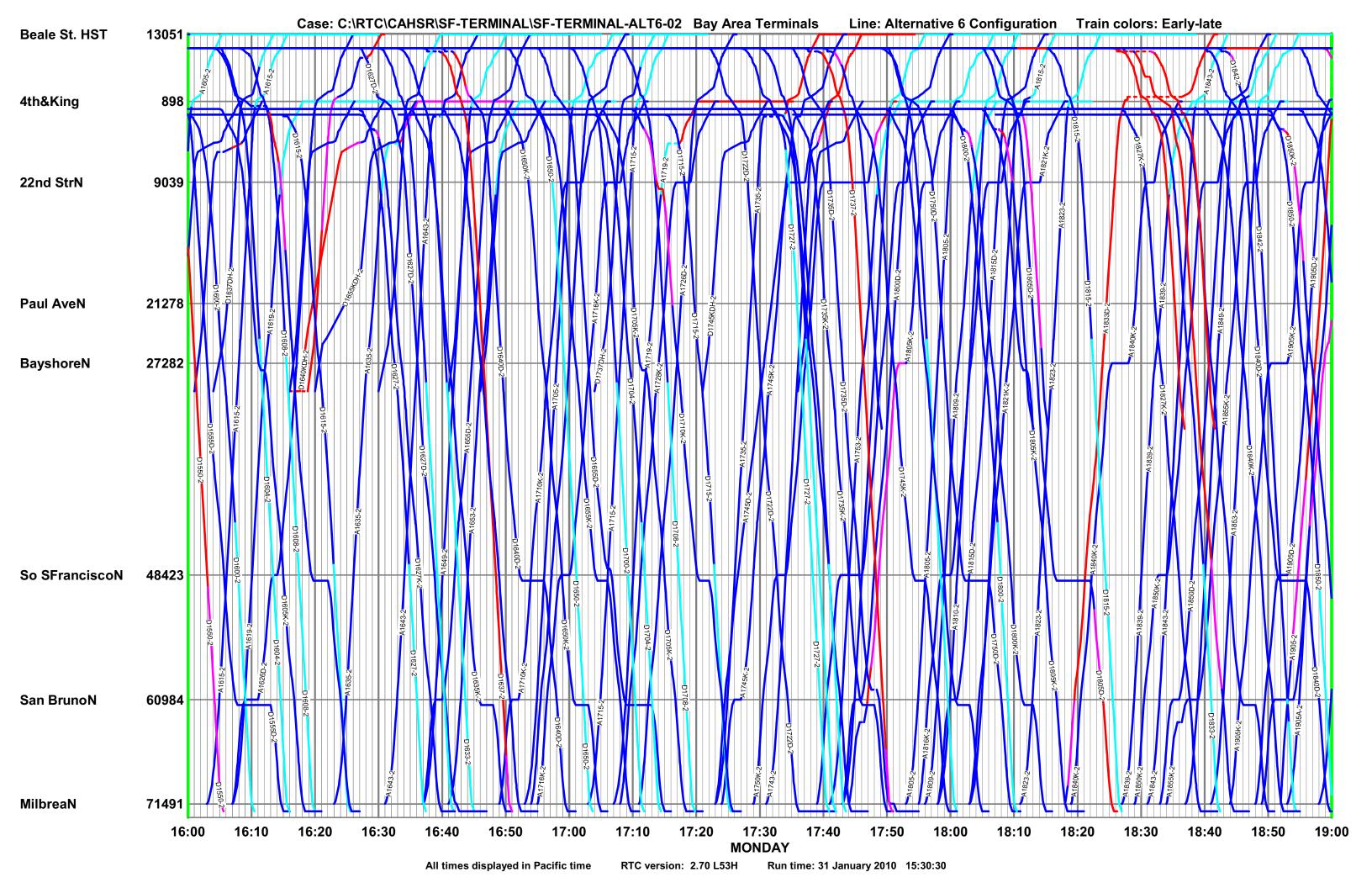


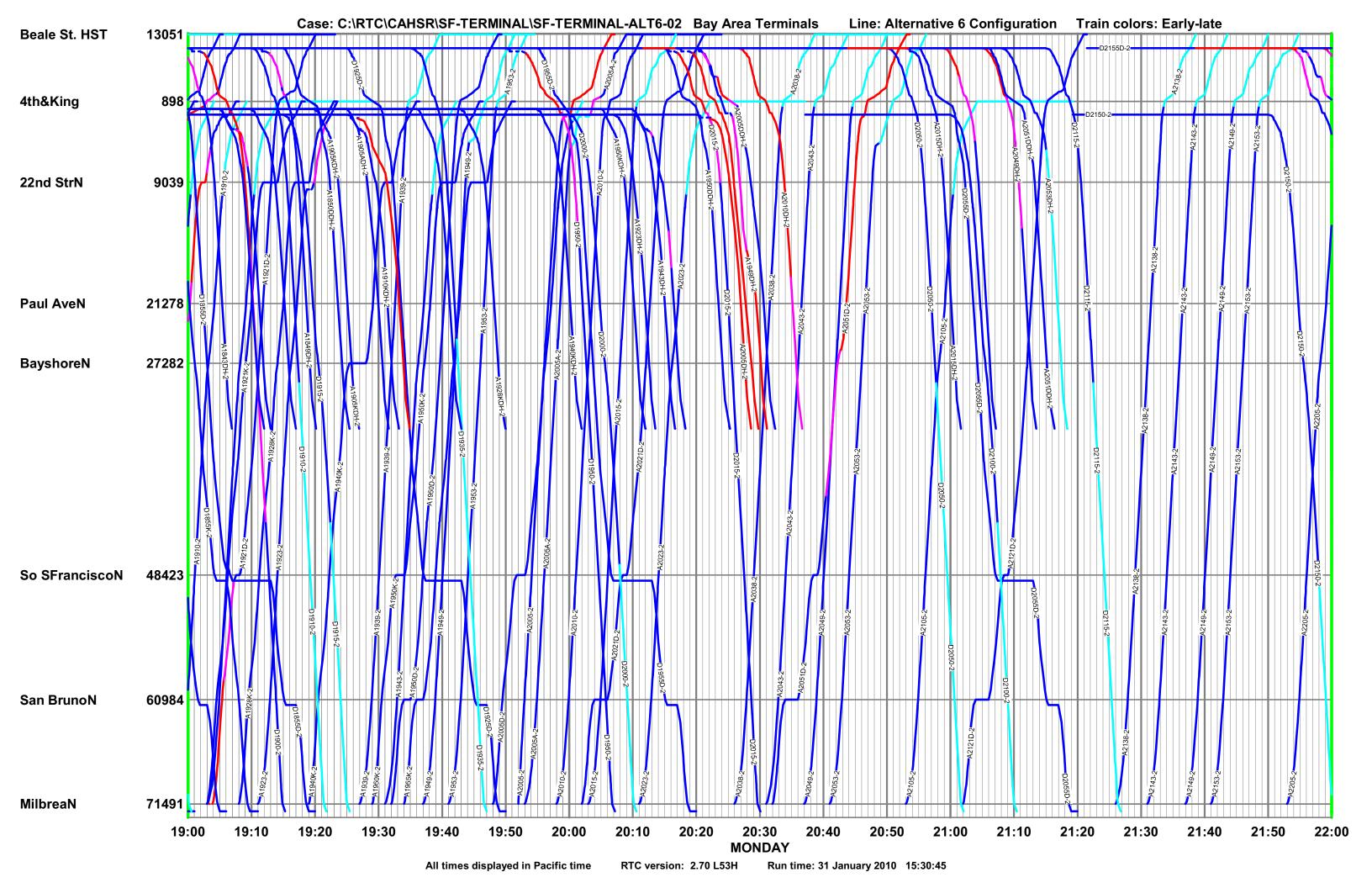


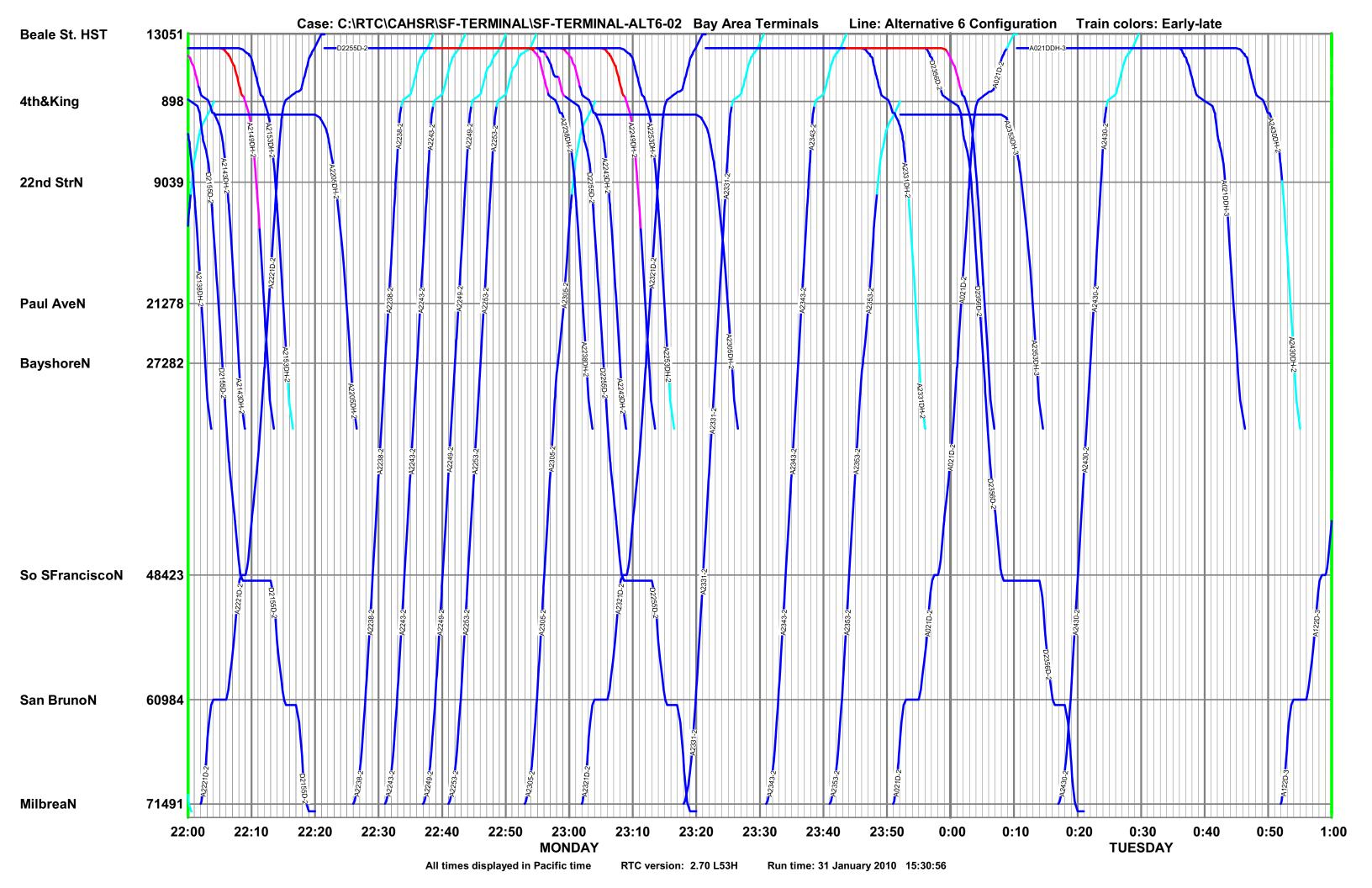


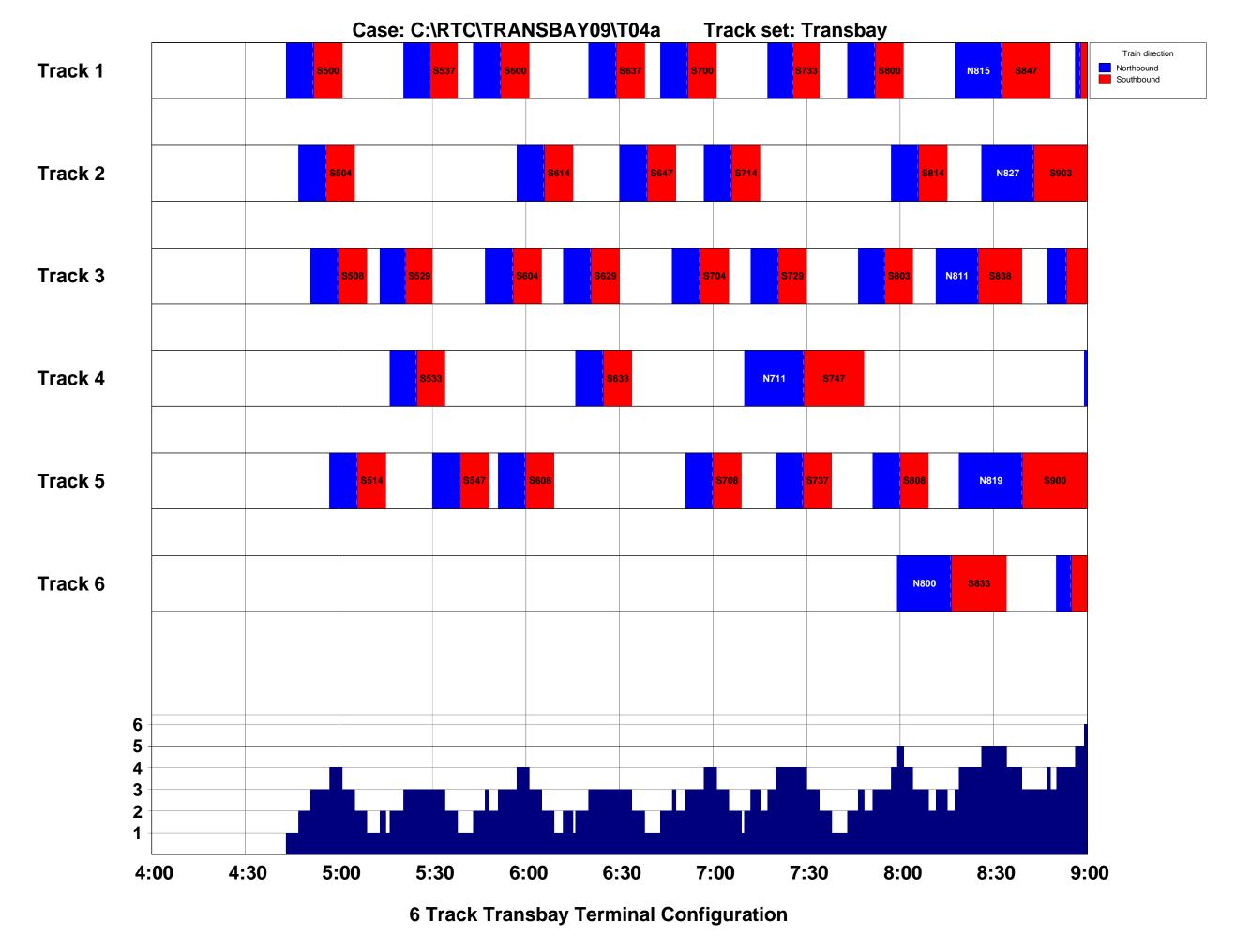




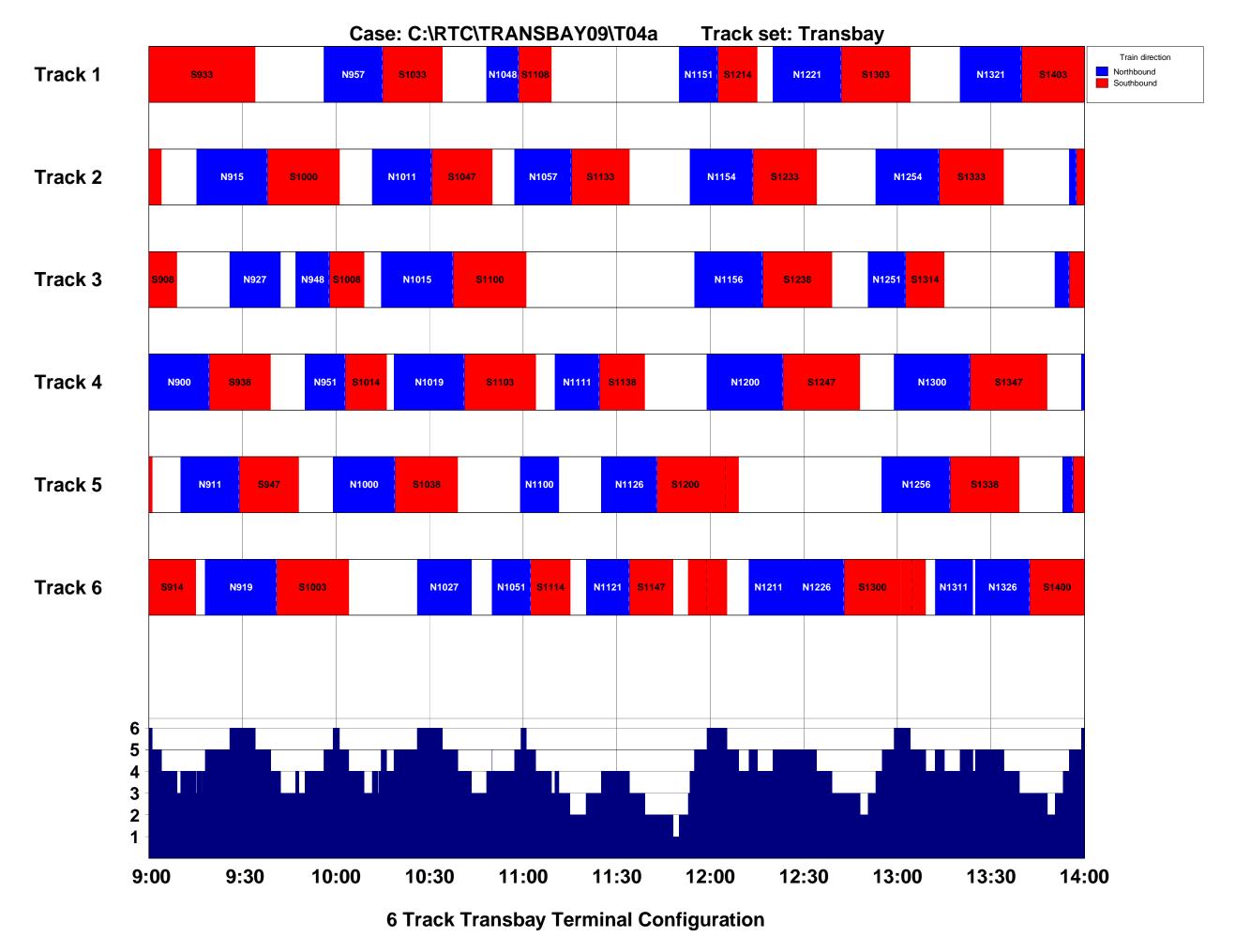




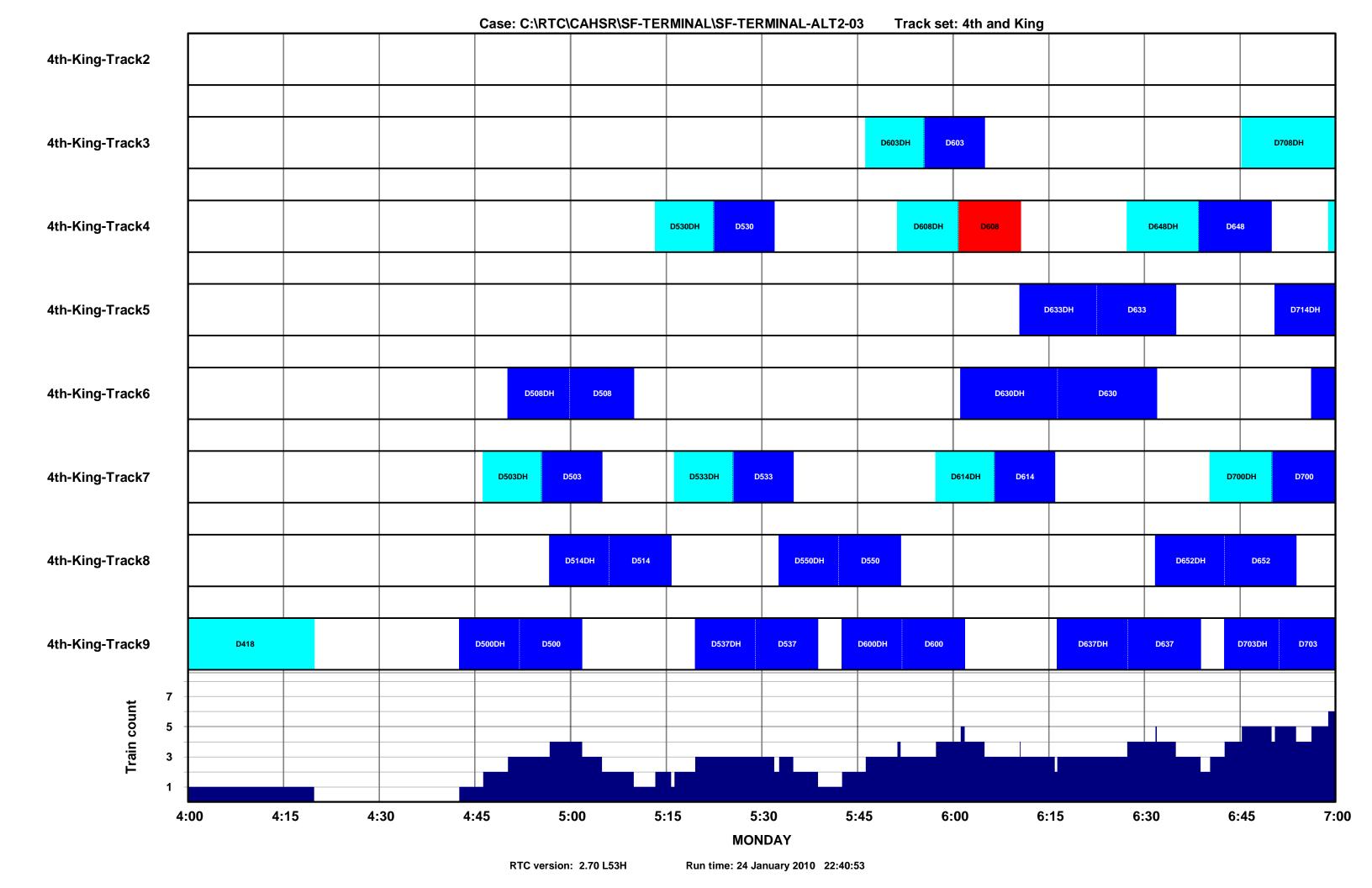


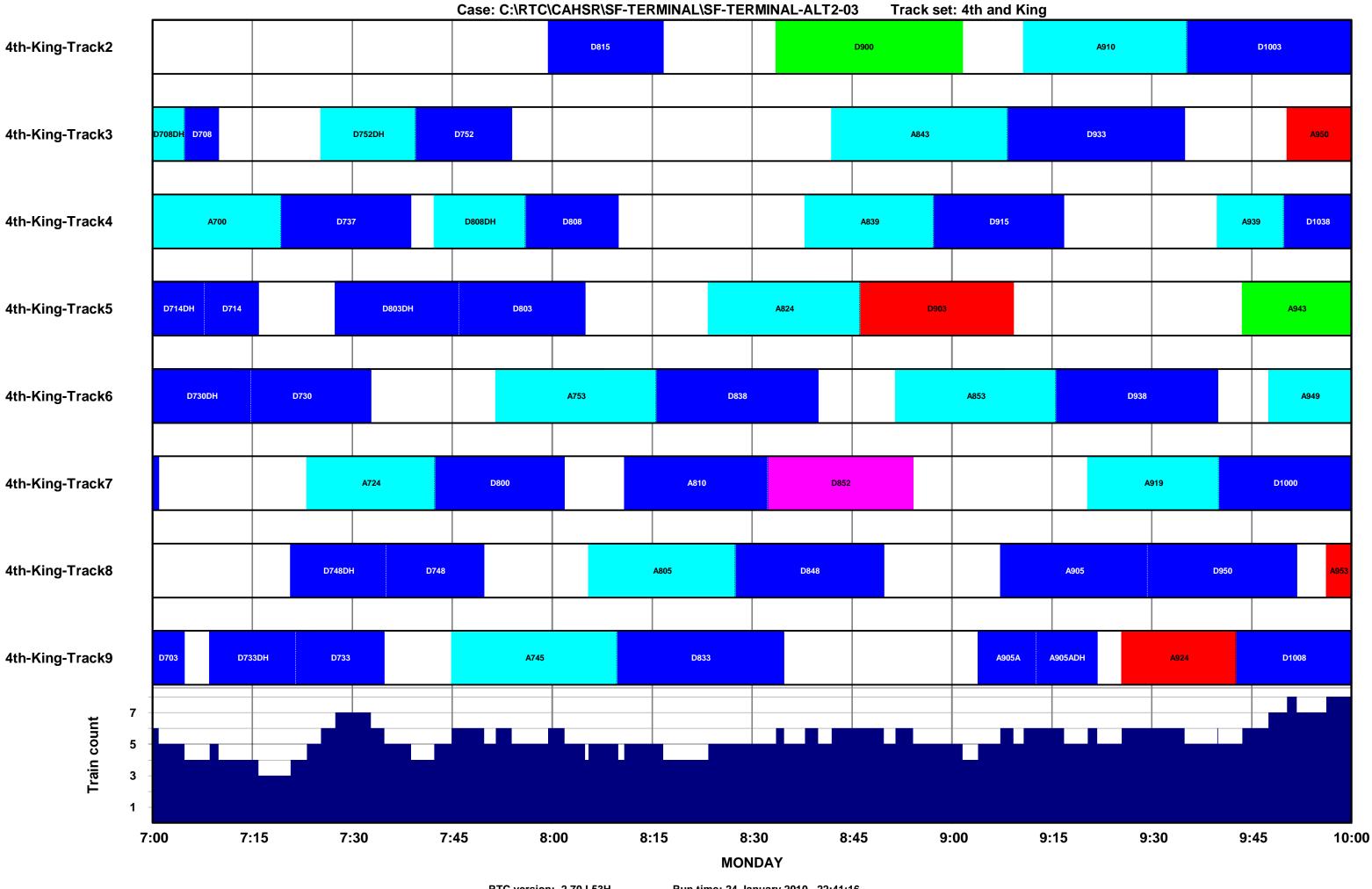


RTC version: 2.70 L50D Run time: 11 February 2009 10:27:57

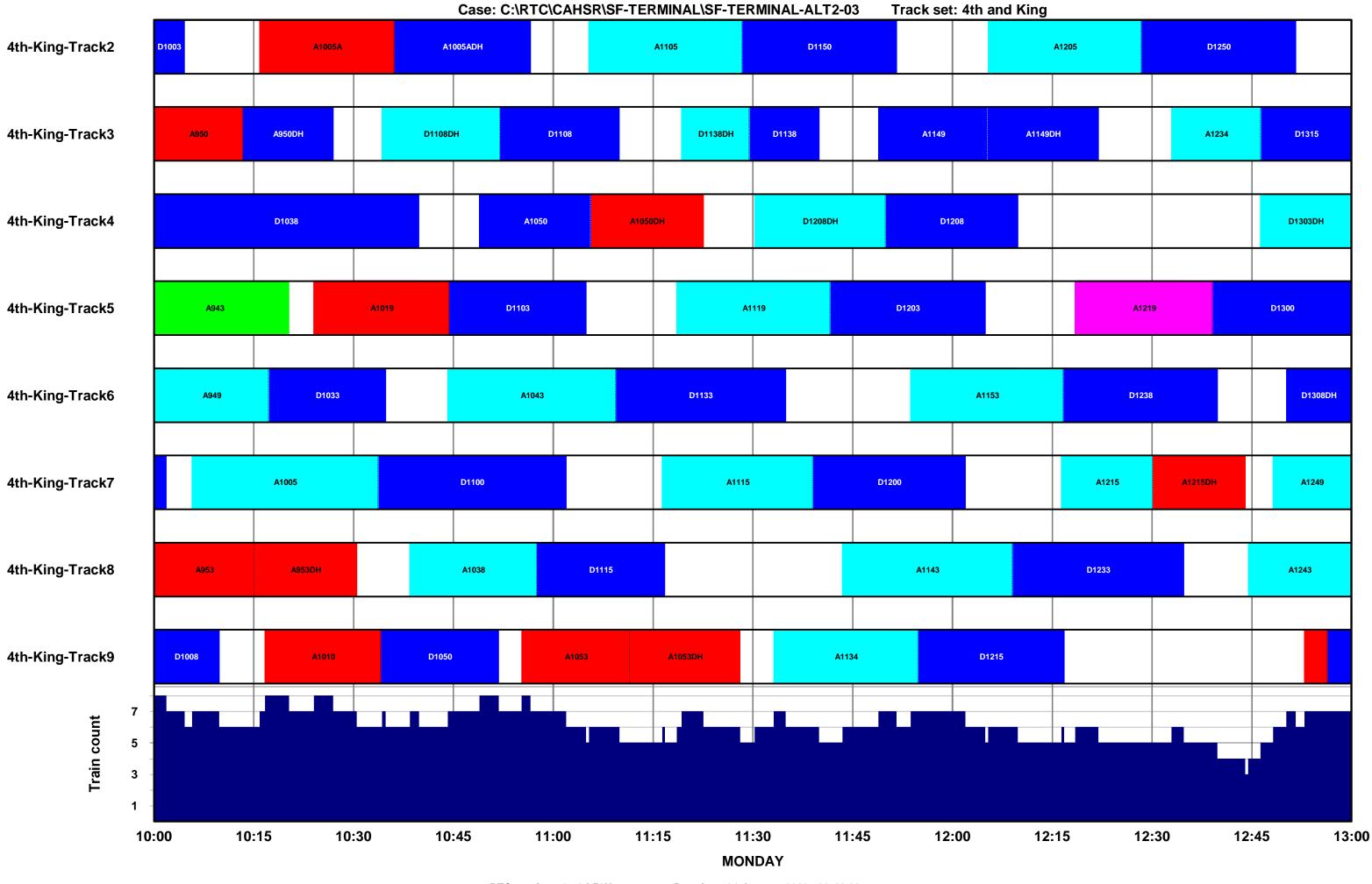


RTC version: 2.70 L50D Run time: 11 February 2009 10:29:10



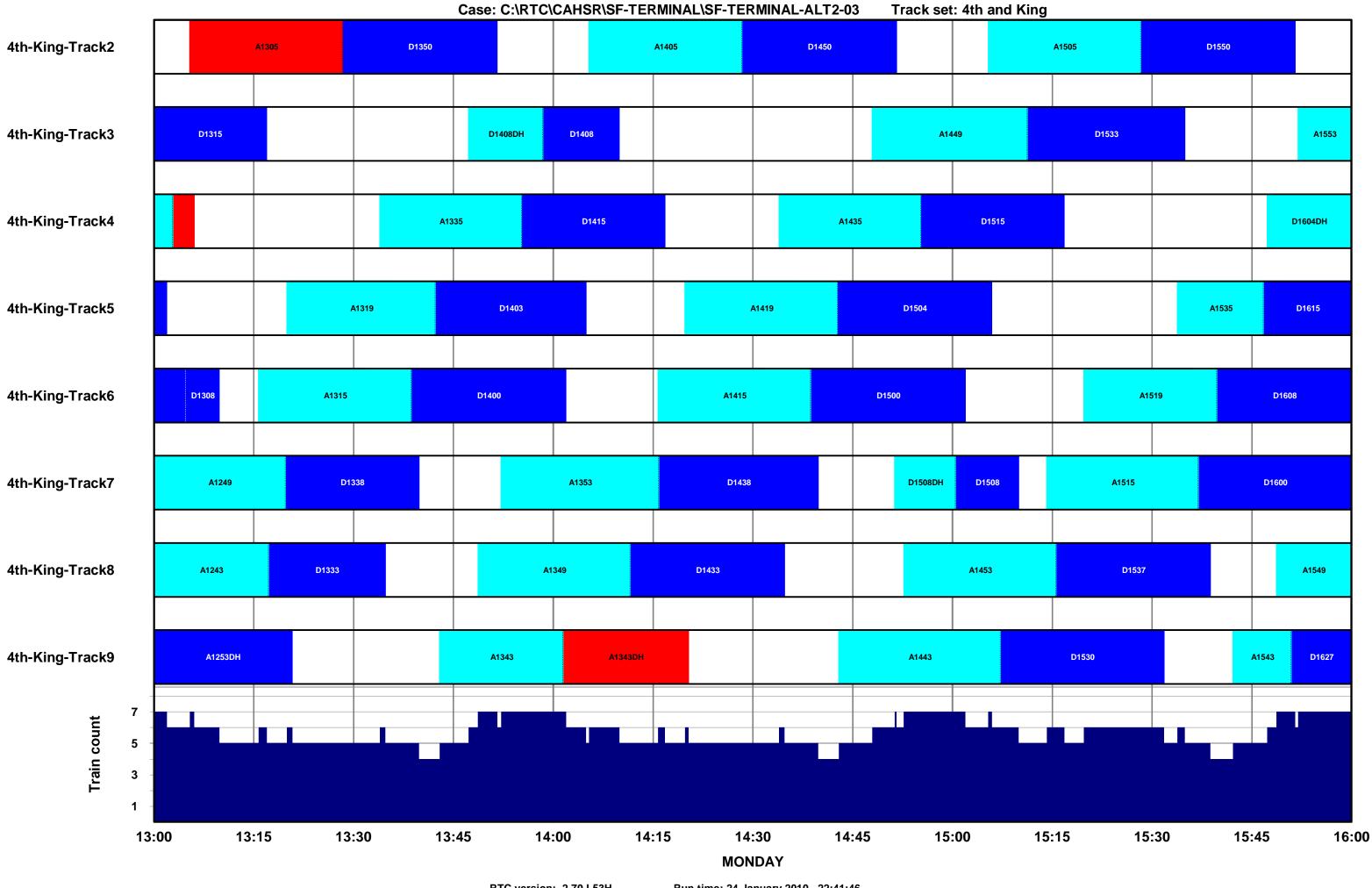


Run time: 24 January 2010 22:41:16 RTC version: 2.70 L53H



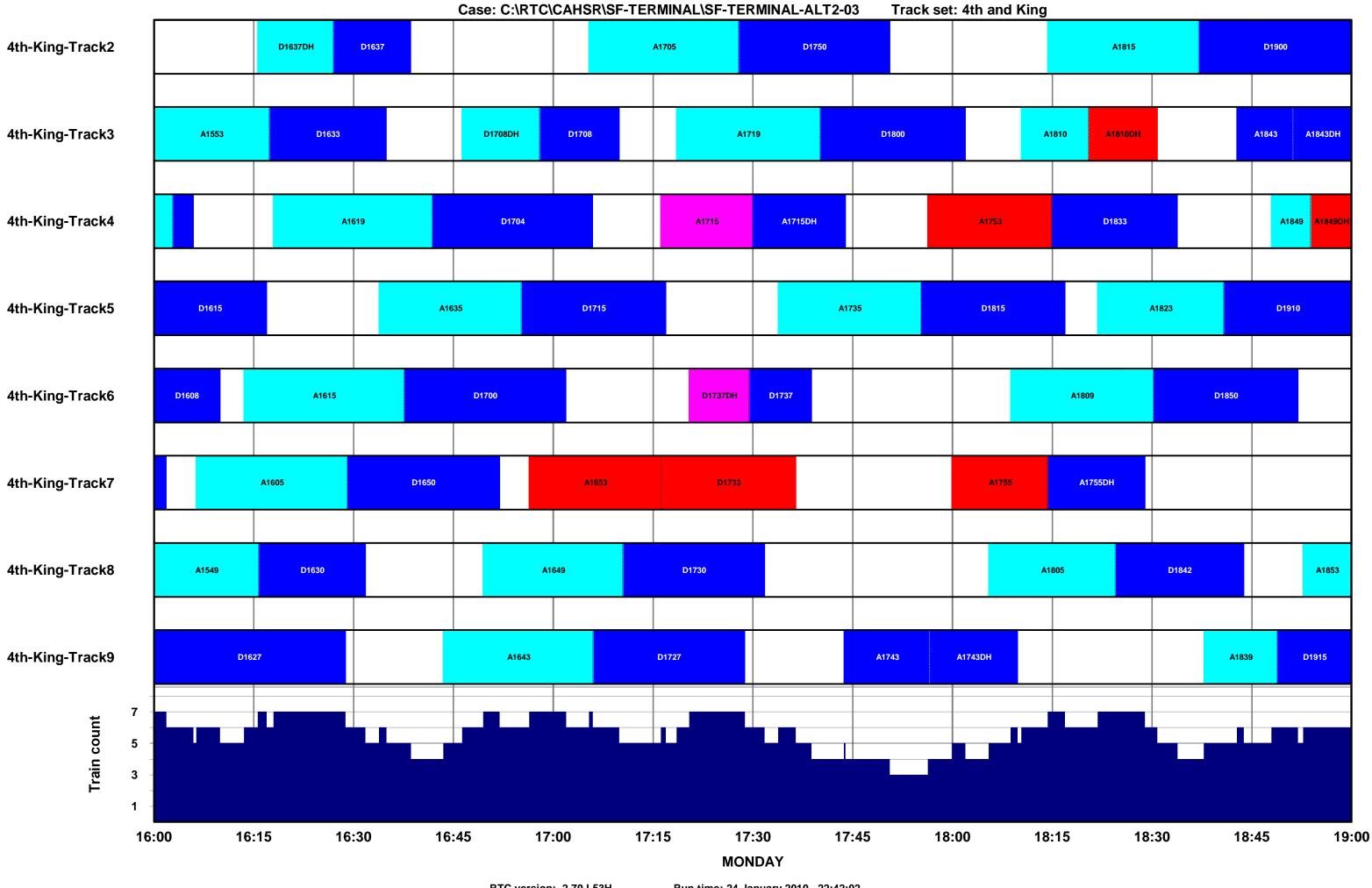
RTC version: 2.70 L53H Run time: 24 Jan

Run time: 24 January 2010 22:41:33



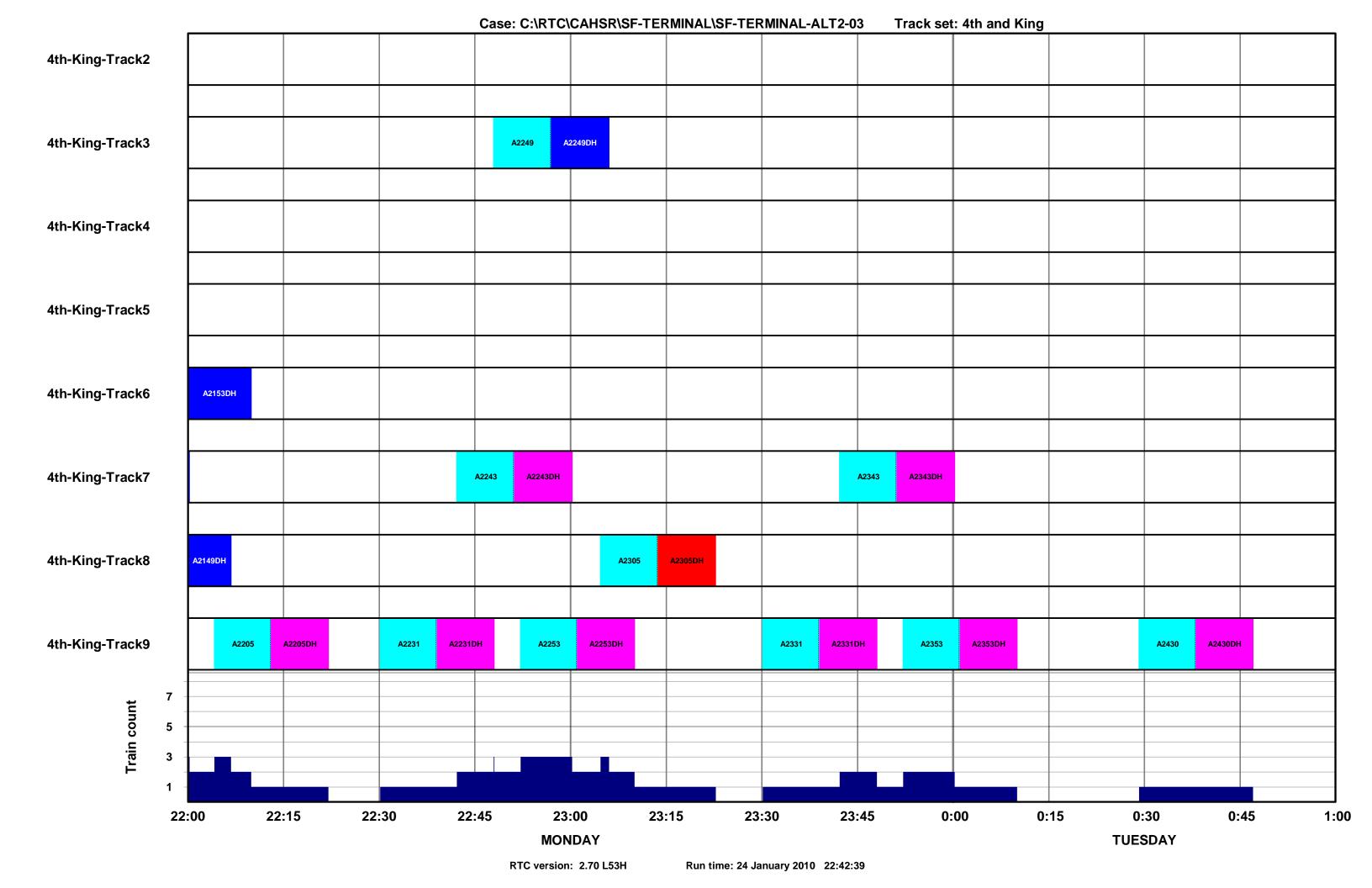
RTC version: 2.70 L53H

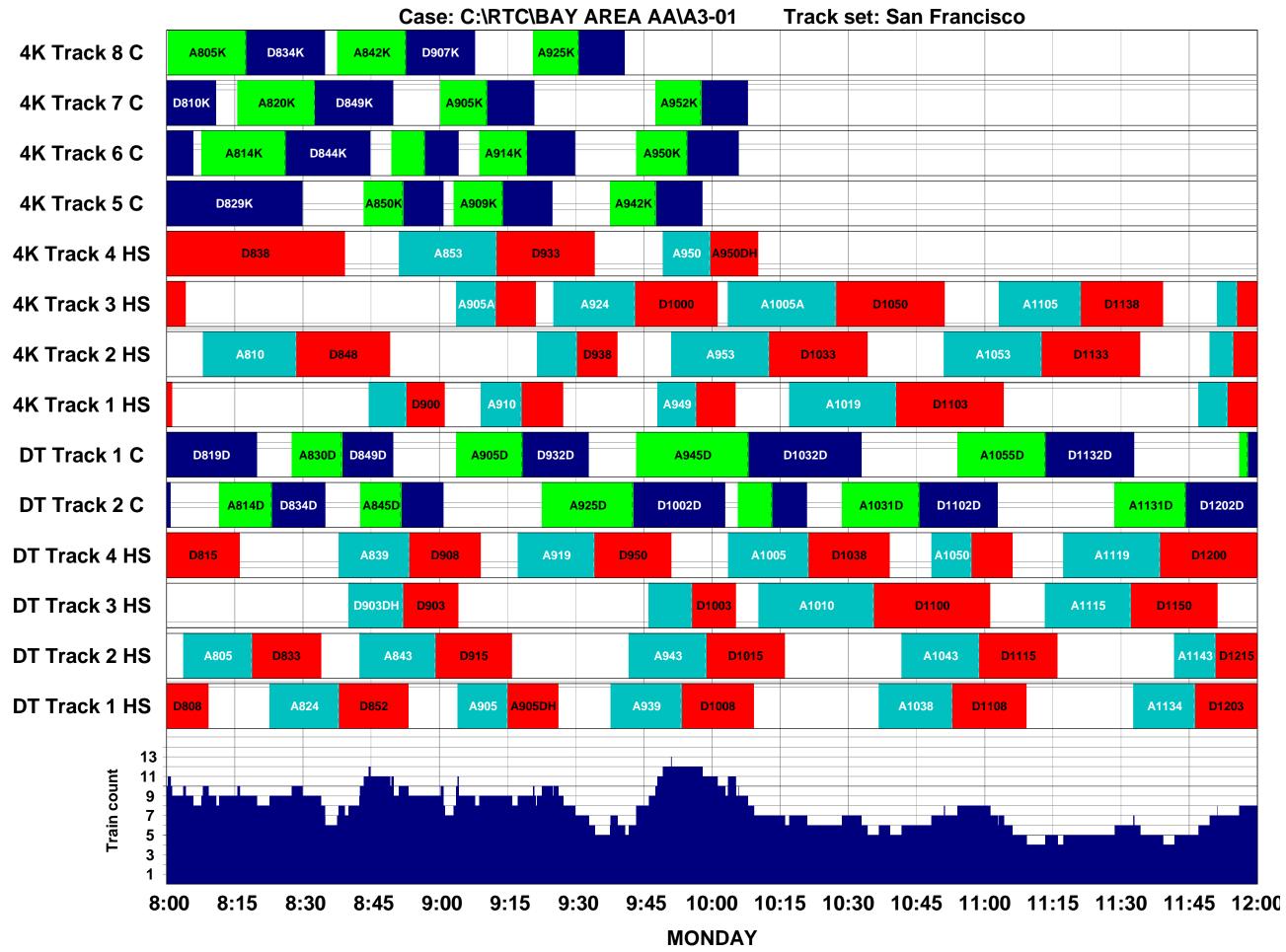
Run time: 24 January 2010 22:41:46



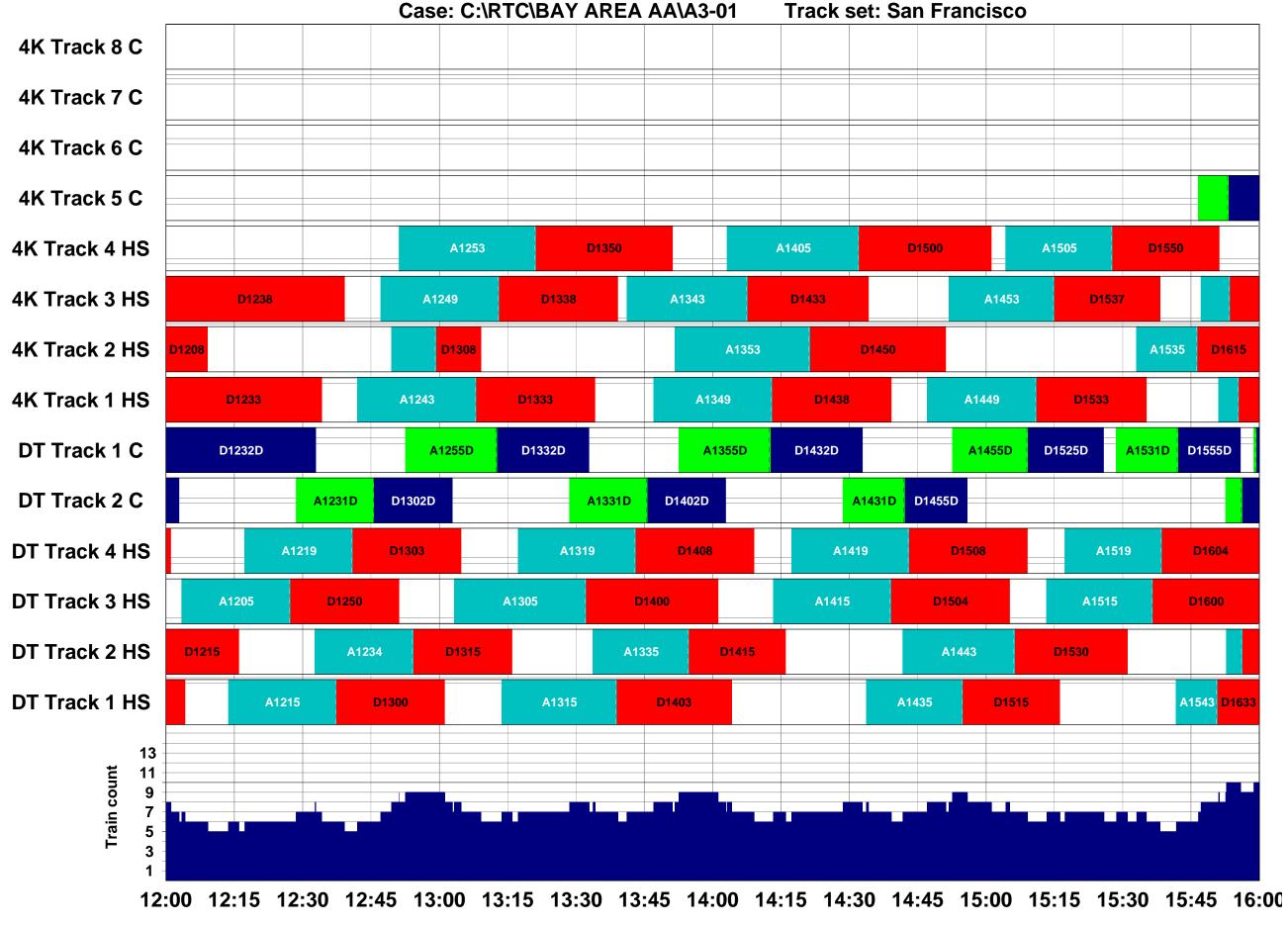
RTC version: 2.70 L53H

Run time: 24 January 2010 22:42:02





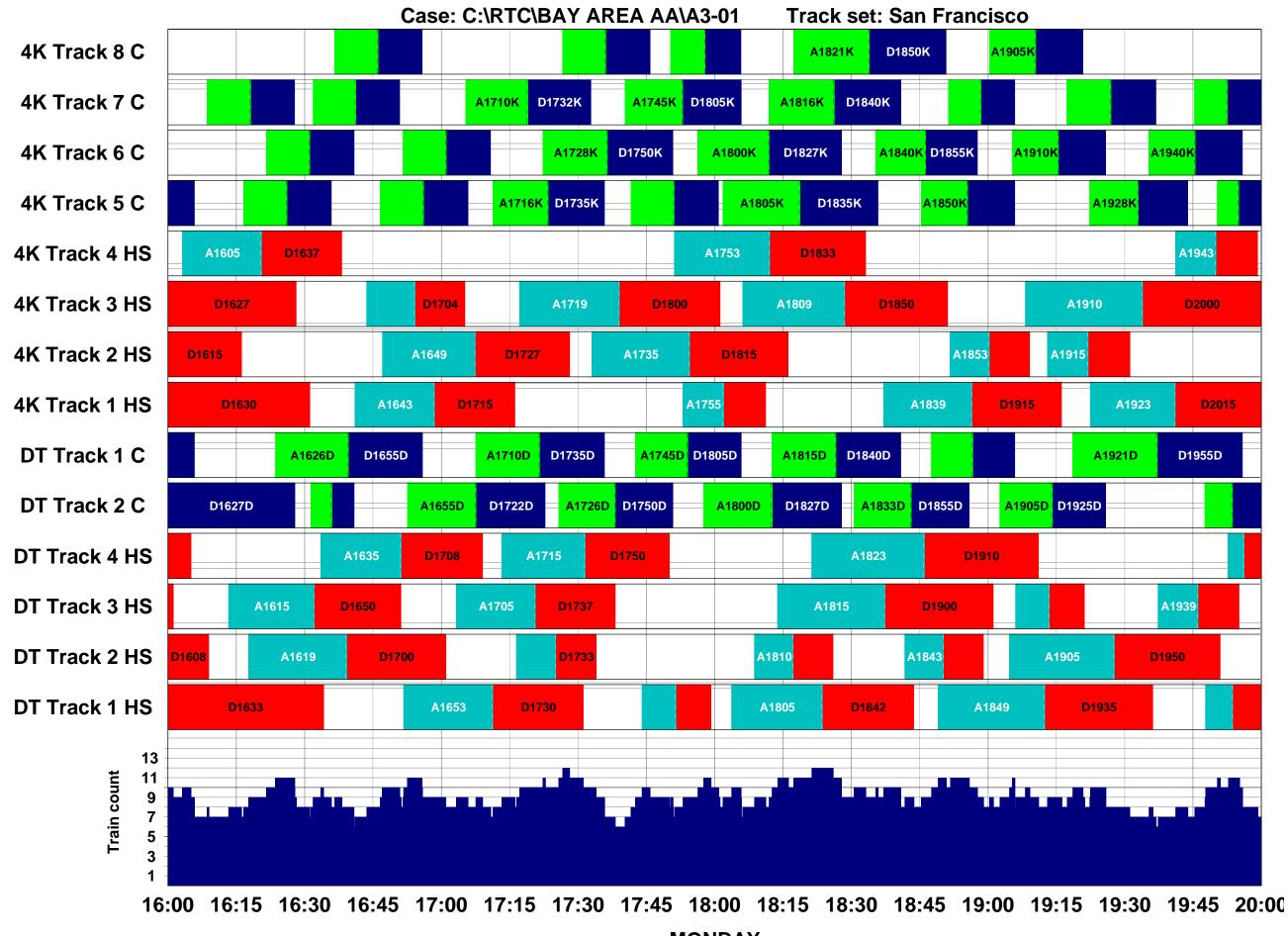
RTC version: 2.70 L54F Run time: 15 January 2010 20:53:00



MONDAY

RTC version: 2.70 L54F

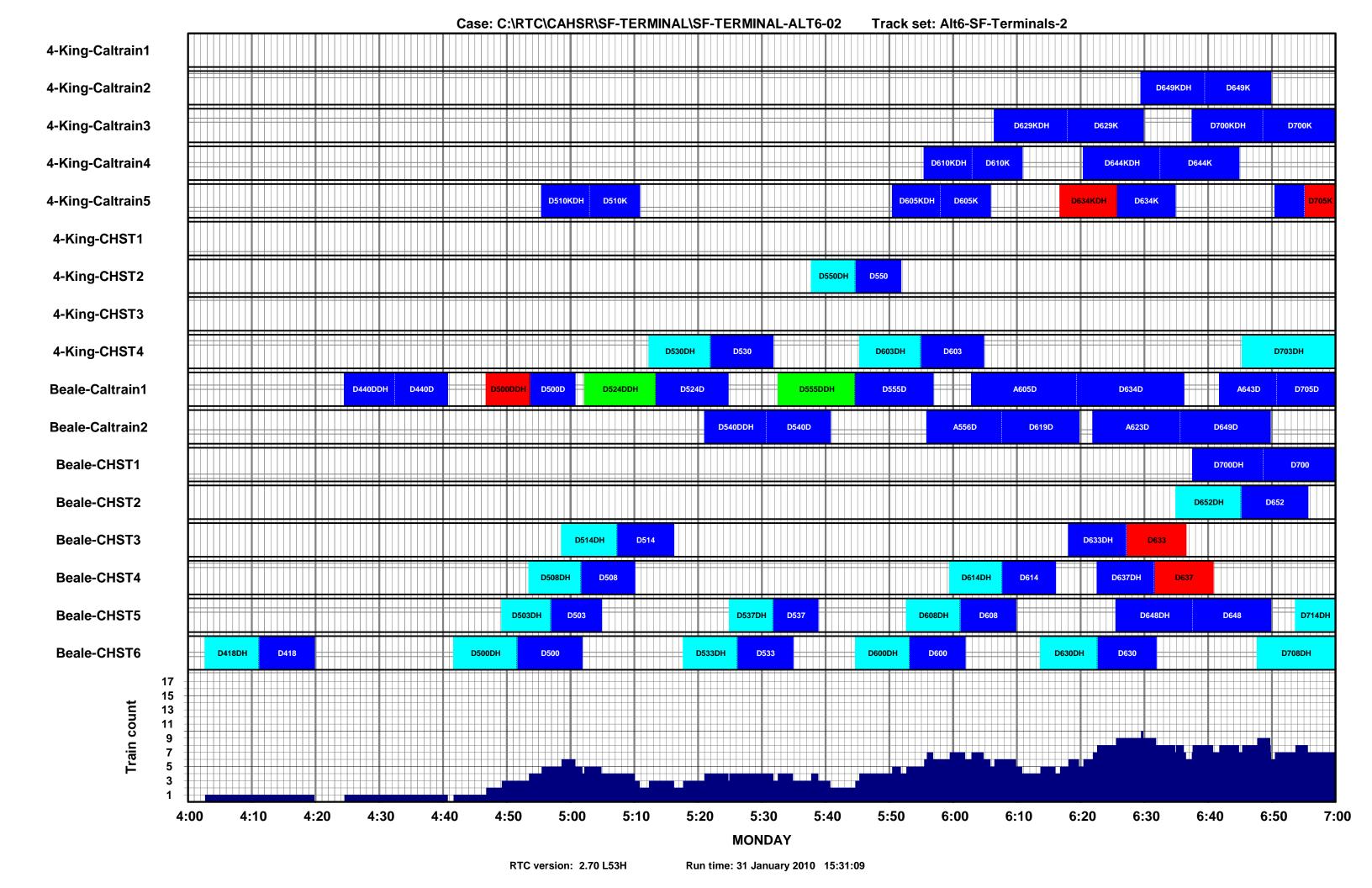
Run time: 15 January 2010 20:53:55

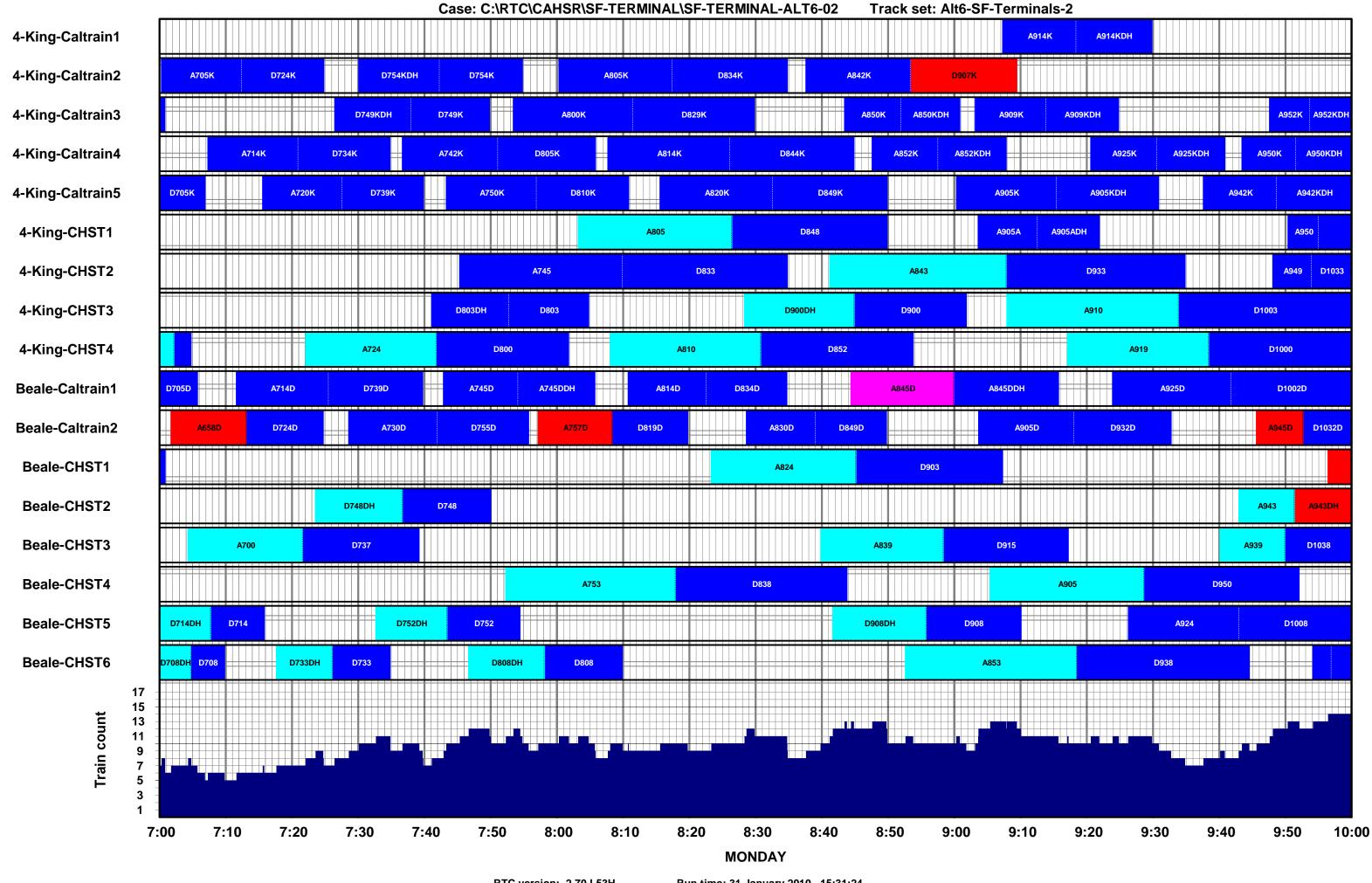


MONDAY

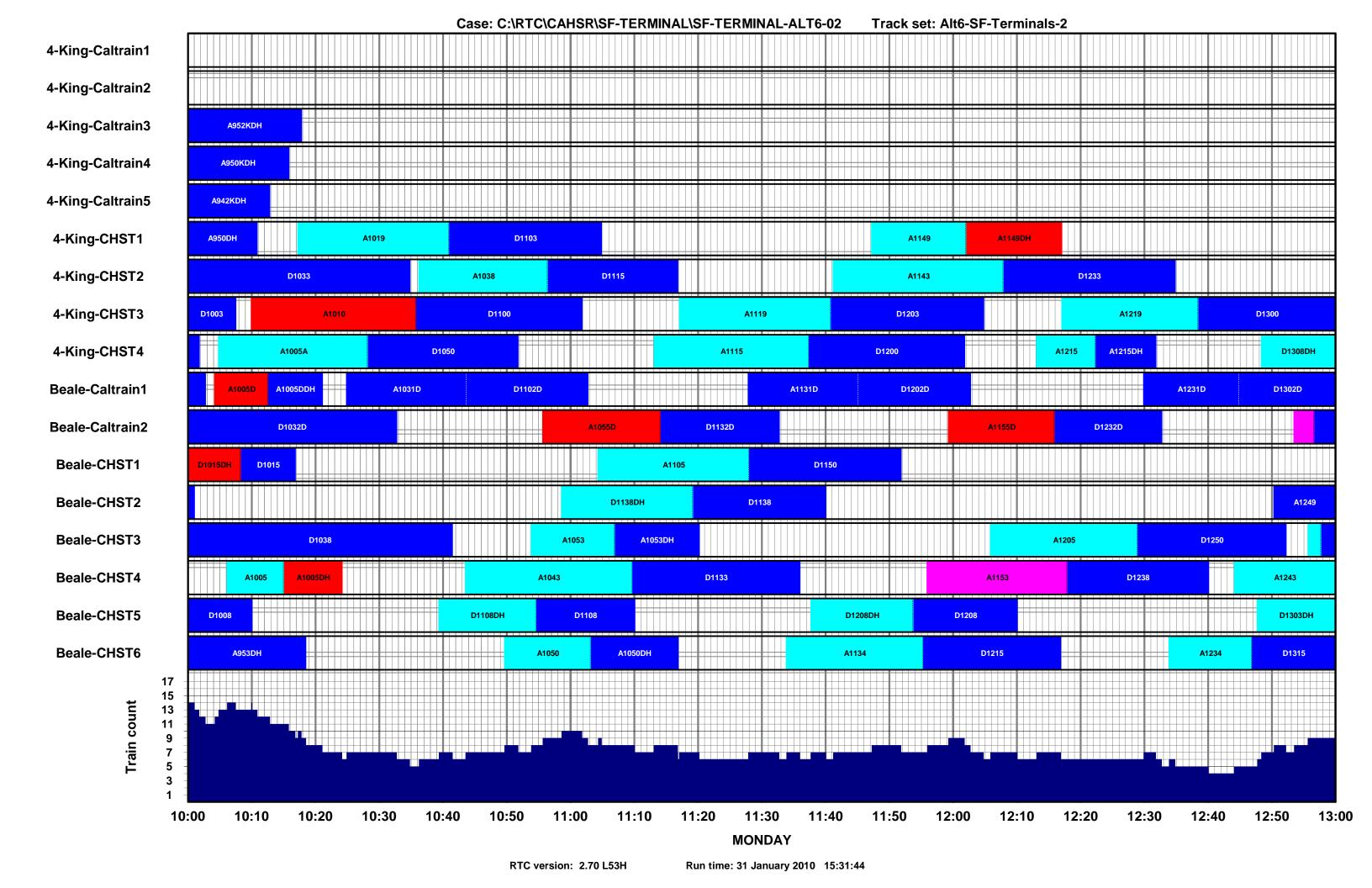
RTC version: 2.70 L54F

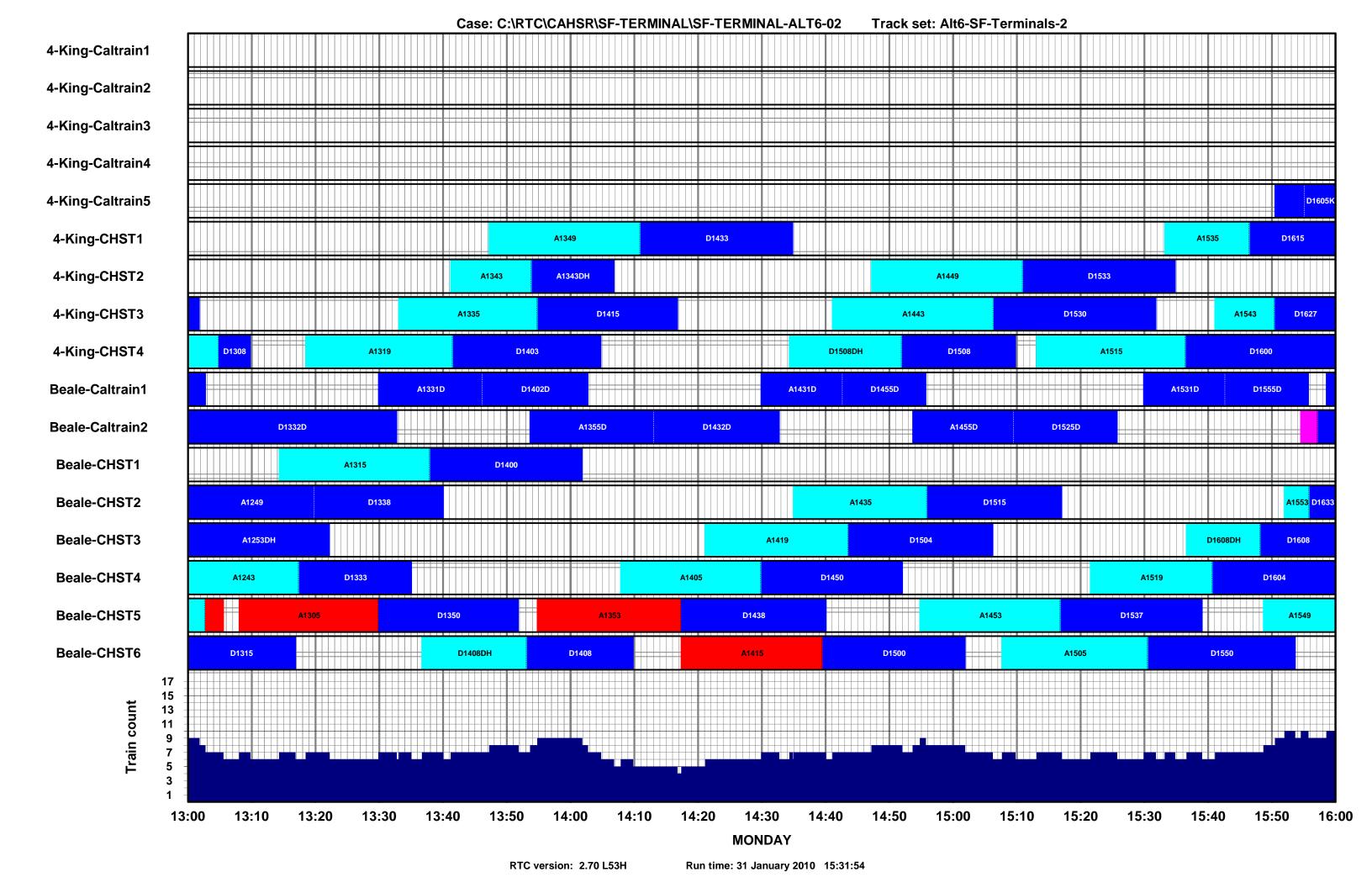
Run time: 15 January 2010 21:00:11

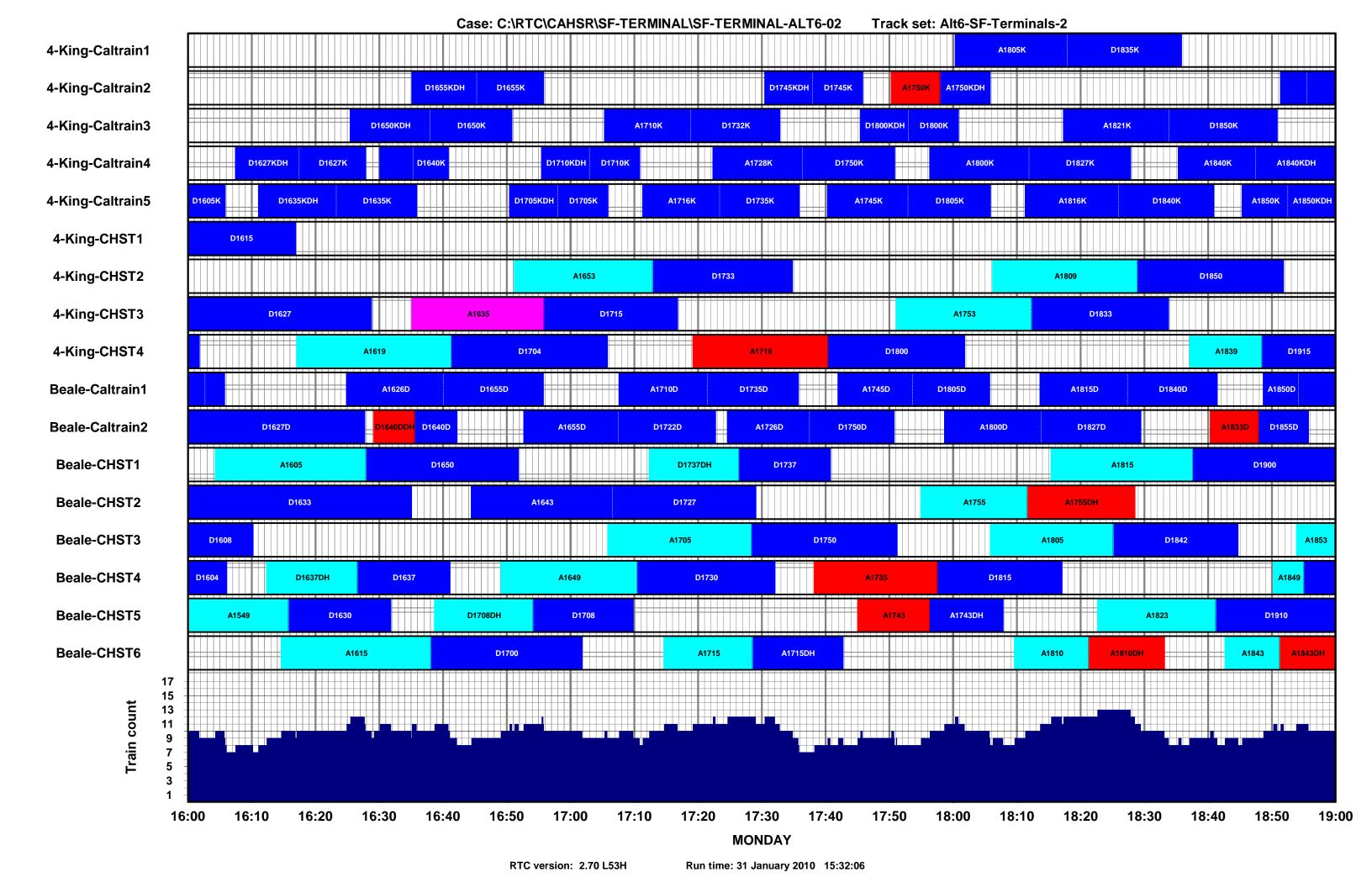


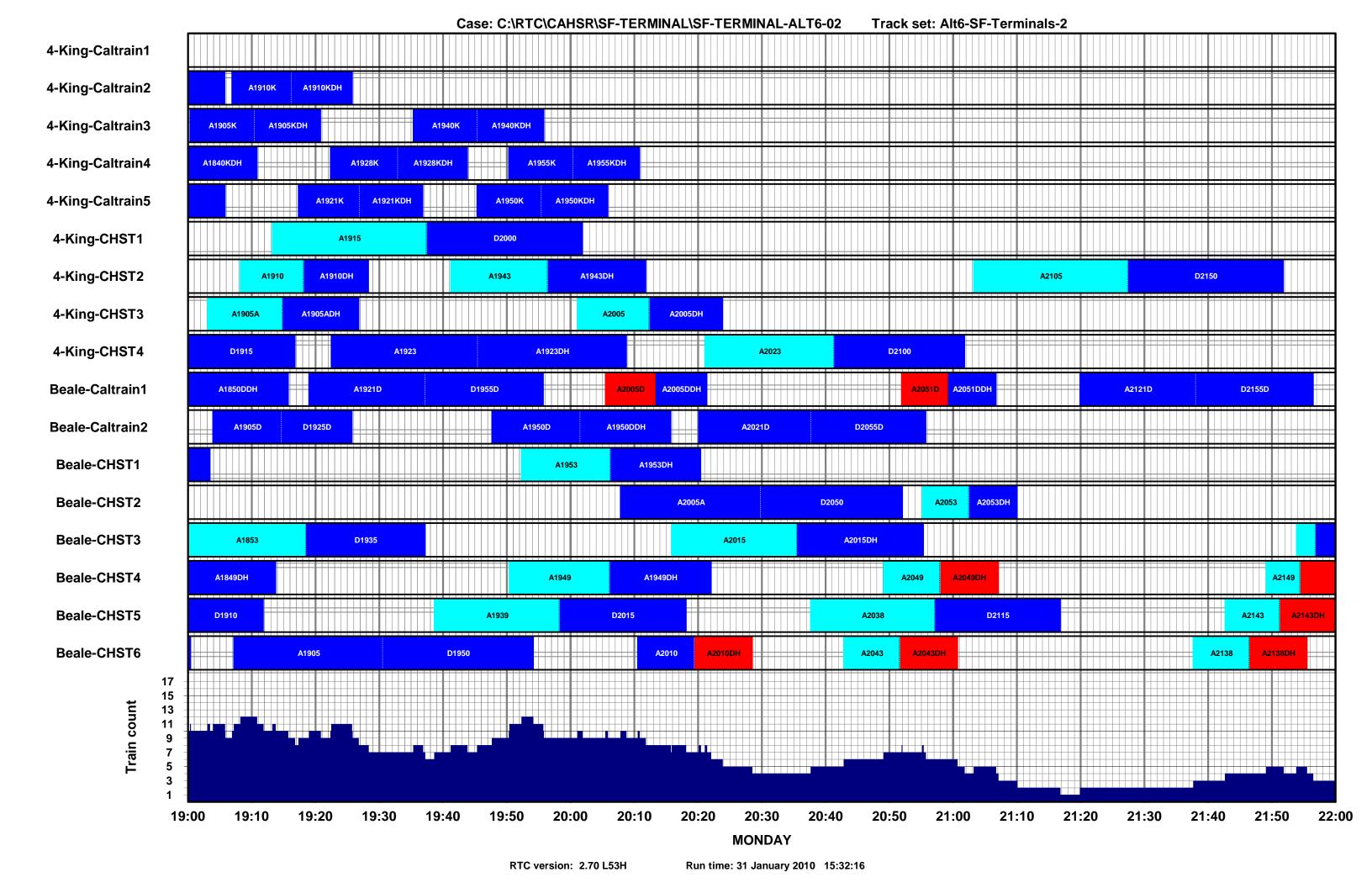


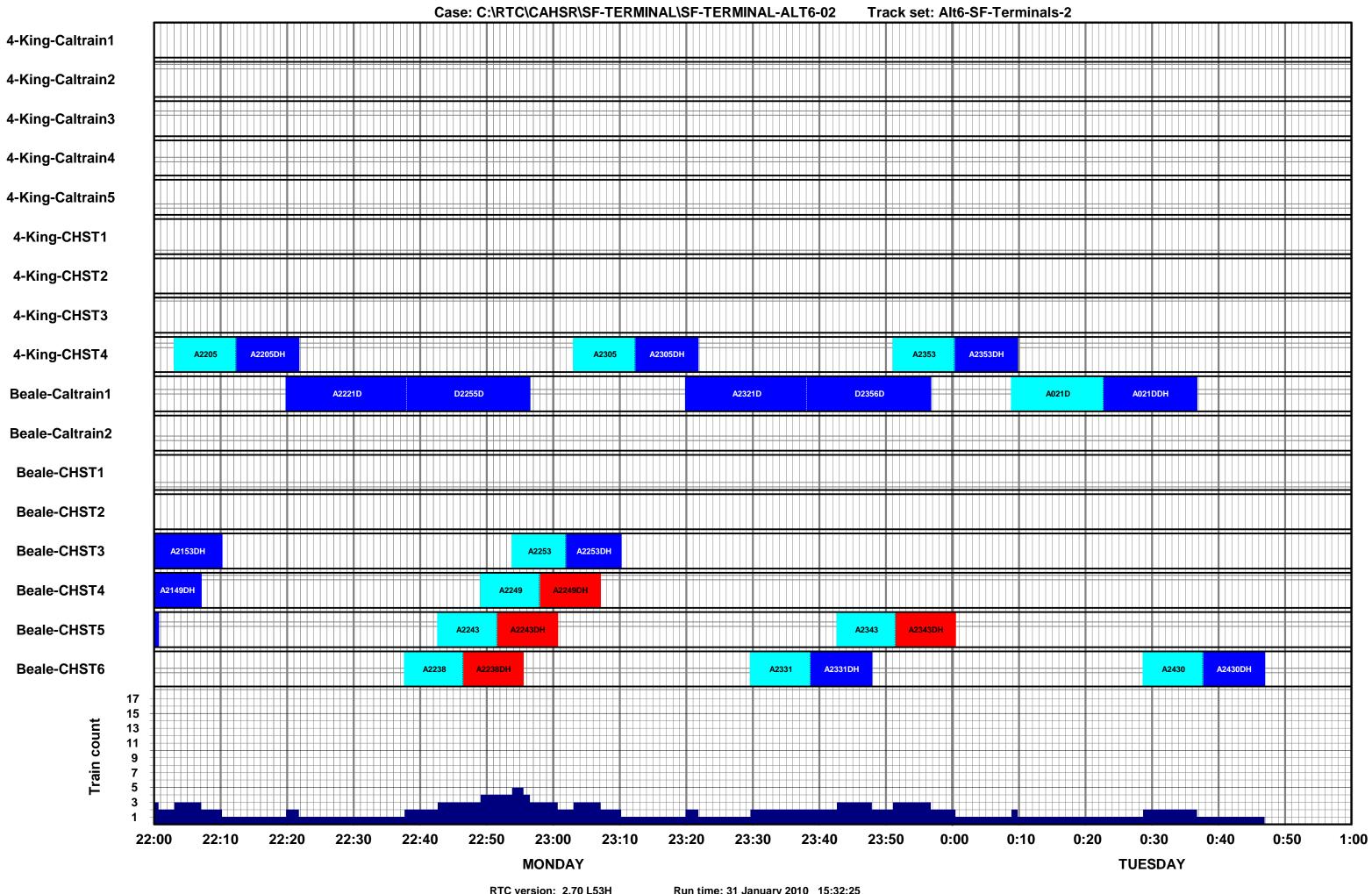
RTC version: 2.70 L53H Run time: 31 January 2010 15:31:24











RTC version: 2.70 L53H Run time: 31 January 2010 15:32:25